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University of the State of New York

College Department

SECOND ANNUAL REPORT

1899

VOL. 1

REPORT OF DIRECTOR PROFESSIONAL EXAMINATION PAPERS 1899 COLLEGES



TRANSMITTED TO THE LEGISLATURE JAN. 3, 1900, BY THE REGENTS OF THE
UNIVERSITY AS PART OF THEIR 113TH ANNUAL REPORT

ALBANY

UNIVERSITY OF THE STATE OF NEW YORK

1900

3401



University of the State of New York

REGENTS

With years of election

1874 ANSON JUDD UPSON L.H.D. D.D. LL.D.

Chancellor, Glens Falls

1892 WILLIAM CROSWELL DOANE D.D. LL.D.

Vice-Chancellor, Albany

| | | | | | | | |
|------|--------------------|--------|-------|--------|---|---|-----------|
| 1873 | MARTIN I. TOWNSEND | M.A. | LL.D. | - | - | - | Troy |
| 1877 | CHAUNCEY M. DEPEW | LL.D. | | - | - | - | New York |
| 1877 | CHARLES E. FITCH | LL.B. | M.A. | L.H.D. | | - | Rochester |
| 1877 | ORRIS H. WARREN | D.D. | | - | - | - | Syracuse |
| 1878 | WHITELAW REID | LL.D. | | - | - | - | New York |
| 1881 | WILLIAM H. WATSON | M.A. | M.D. | | - | - | Utica |
| 1881 | HENRY E. TURNER | | | - | - | - | Lowville |
| 1883 | ST CLAIR MCKELWAY | L.H.D. | LL.D. | D.C.L. | | - | Brooklyn |
| 1885 | HAMILTON HARRIS | Ph.D. | LL.D. | | - | - | Albany |
| 1885 | DANIEL BEACH | Ph.D. | LL.D. | | - | - | Watkins |
| 1888 | CARROLL E. SMITH | LL.D. | | - | - | - | Syracuse |
| 1890 | PLINY T. SEXTON | LL.D. | | - | - | - | Palmyra |
| 1890 | T. GUILFORD SMITH | M.A. | LL.D. | C.E. | | - | Buffalo |
| 1893 | LEWIS A. STIMSON | B.A. | M.D. | | - | - | New York |
| 1895 | ALBERT VANDER VEER | Ph.D. | M.D. | | - | - | Albany |
| 1895 | CHARLES R. SKINNER | M.A. | LL.D. | | | | |

Superintendent of Public Instruction, ex officio

| | | | | | | | |
|------|---------------------|-------|---------------------------------|--------------------------------|---|---|-----------|
| 1897 | CHESTER S. LORD | M.A. | LL.D. | - | - | - | Brooklyn |
| 1897 | TIMOTHY L. WOODRUFF | M.A. | Lieutenant-Governor, ex officio | | | | |
| 1899 | THEODORE ROOSEVELT | B.A. | LL.D. | Governor, ex officio | | | |
| 1899 | JOHN T. McDONOUGH | LL.B. | LL.D. | Secretary of State, ex officio | | | |
| 1900 | THOMAS A. HENDRICK | M.A. | | - | - | - | Rochester |

SECRETARY

Elected by regents

1900 JAMES RUSSELL PARSONS JR M.A.

DIRECTORS OF DEPARTMENTS

1888 MELVIL DEWEY M.A. *State library and Home education*

1890 JAMES RUSSELL PARSONS JR M.A.

Administrative, College and High school dep'ts

1890 FREDERICK J. H. MERRILL Ph.D. *State museum*

REGENTS STANDING COMMITTEE ON COLLEGE DEPT 1899

WILLIAM H. WATSON *Chairman*

CHARLES E. FITCH

LEWIS A. STIMSON

STATE OF NEW YORK

No. 42

IN SENATE

3 Jan. 1900

SECOND ANNUAL REPORT

OF THE

COLLEGE DEPARTMENT

OF THE

University of the State of New York

To the legislature of the state of New York

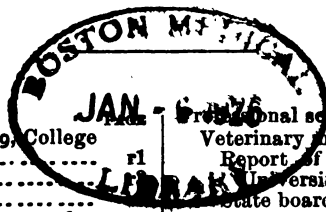
I have the honor to submit herewith, pursuant to law, the annual report of the college department, with appendixes.

ANSON JUDD UPSON

Chancellor.

1. A. 150.

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College Department

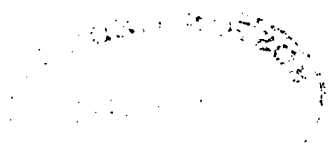
INCLUDING UNIVERSITIES, PROFESSIONAL AND TECHNICAL SCHOOLS

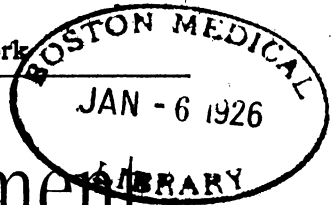
Bulletin 12 May 1900

REPORT OF DIRECTOR, 1899

James Russell Parsons jr

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College Department

INCLUDING UNIVERSITIES, PROFESSIONAL AND TECHNICAL SCHOOLS

Bulletin 12 May 1900

REPORT OF DIRECTOR, 1899

James Russell Parsons jr

To the Regents of the University of the State of New York

I submit herewith the following report of the college department for the year ending July 31, 1899:¹

Arrangement. This report represents a greater volume of work within the field covered than that of any previous year. On this account lists of names, and the summary of charters as in the last report are transferred to an appendix, thus making the work of the college department more intelligible to those unfamiliar with its scope.

To secure a uniform classification, an attempt has been made to group related items and to treat them uniformly in the following order: universities and colleges, professional schools, technical and other special schools.

Reorganization. In the reorganization of the University work in June 1898, the examination department, which had grown to include far more than its name implied, was discontinued and its functions divided between the new college and high school departments. The University departments are now as follows:

1 Administrative, including charters, finances, legislation, printing and publications and all other work not assigned to any other department

¹ All statistics in this report are for the year ending July 31, 1899, but information is added touching the work of the department to Feb. 15, 1900, when the report went to press.

2 College, including universities, professional, technical and other special schools and all matters pertaining to degrees or licenses

3 High school, including academies and all interests of secondary education

4 Home education, including all work heretofore done under the name of the extension department

5 State library

6 State museum, including all scientific interests

UNIVERSITIES, COLLEGES, PROFESSIONAL AND TECHNICAL SCHOOLS

Action by the regents

Incorporation. The following action was taken by the regents:

Special charter. 15 D 98, Brooklyn teachers association

Limited charter. 15 D 98, Board of pharmacy institute, New York

Charters amended. 15 D 98, Barnard college, New York and Mackenzie (formerly Protestant) college at Sao Paulo, Brazil

Provisional charter extended. 15 D 98, Syracuse museum of fine arts

Special charter. 6 Ap 99, New York state historical association, Caldwell N. Y.

Association charter. 6 Ap 99, Public education association, New York

Absolute charter. 26 Je 99, New York branch of Catholic summer school of America

Association charters. 26 Je 99, Valonia historical society of the town of Trenton, and Veteran artillery corps and Washington continental guard, New York

Limited charter. 26 Je 99, Heffley school, Brooklyn N. Y.

Provisional limited charter. 26 Je 99, American academy of dramatic arts, New York

Charter amended. 26 Je 99, New York business institute

Degrees conferred. During the year the regents have conferred the following degrees: [For lists of names *see* appendix]

Bachelor of divinity on 15 graduates of Union theological seminary

Bachelor of arts on 15 graduates of Adelphi college

Bachelor of science on three graduates of Adelphi college

Doctor of medicine on six graduates of the New York medical college and hospital for women

Doctor of dental surgery on 46 graduates of the New York college of dentistry¹ and 12 graduates of the New York dental school.

Licenses issued. During the year the regents have licensed as a result of state examinations: [For lists of names *see* appendix]

670 physicians [599 old school, 52 homeopaths, 19 eclectics]

182 dentists

12 veterinary surgeons, and

8 certified public accountants

Under exemptions in the professional laws the regents have also licensed during the year: [For lists of names *see* appendix]

138 physicians

39 dentists

11 veterinary surgeons, and

1 certified public accountant

New York city college degrees. Dec. 21, 1899, Pres. Webb of the College of the City of New York having petitioned for an extension of time under ordinance 60, so that students would be permitted to graduate under present conditions till the New York high schools can supply the college with classes that meet the

¹ These degrees are granted by the trustees and directors on the recommendation of the faculty with the consent of the regents of the University.

conditions of the ordinance, there seemed to be strong reason for extending to graduates of the said college the privileges accorded by law to students in dentistry and veterinary medicine. It was therefore

Voted, That matriculates in the New York city college prior to Jan. 1, 1901, be entitled to receive their degrees on standards not lower than those now established by the said college and that the requirement of ordinance 60 of four full years of preliminary general education for admission to a four year college course be suspended in this case so it shall not apply to those matriculating before Jan. 1, 1901.

Colleges, professional, technical and other special schools

| CLASSIFICATION | NUMBER | | FACULTY | | STUDENTS | | | FIRST DEGREES, COM- PLETED OR EXAM- INATION | | Net property | Expenditures |
|------------------------|--------|------|---------|-------|----------|--------|---------|---|-------|------------------|-----------------|
| | 1898 | 1899 | Men | Women | Men | Women | Total | 1898 | 1899 | | |
| | | | | | | | | | | | |
| Colleges for men | 23 | 23 | 526 | ..... | 3 513 | ..... | 3 513 | 480 | 506 | \$239 760 994 70 | \$45 968 134 07 |
| Colleges for women .. | 5 | 5 | 98 | ..... | 2 | 3 843 | 3 843 | 248 | 266 | 5 891 555 26 | 905 616 89 |
| Colleges for men & wom | 6 | 6 | 323 | 86 | 1 890 | 987 | 2 867 | 360 | 408 | \$13 855 087 07 | 1260 205 75 |
| Law | 7 | 7 | 119 | 1 | 2 151 | 43 | 2 194 | 513 | 433 | 946 088 18 | 388 013 88 |
| Medicine | 15 | 14 | 978 | 47 | 3 139 | 306 | 3 395 | 670 | 637 | \$5 134 309 44 | 483 086 93 |
| Pharmacy | 5 | 5 | 54 | ..... | 531 | 25 | 556 | 236 | 218 | \$144 248 77 | 78 931 67 |
| Dentistry | 3 | 3 | 104 | ..... | 487 | 11 | 498 | 180 | 114 | 79 213 98 | 78 531 25 |
| Eye and ear | 1 | 1 | 20 | ..... | 3 | 1 | 4 | 9 | 4 | \$100 500 .. | 946 53 |
| Veterinary | 3 | 3 | 54 | ..... | 83 | 1 | 83 | 40 | 16 | 180 103 76 | 35 635 08 |
| Theology | 13 | 14 | 169 | ..... | 787 | 6 | 798 | 27 | 28 | \$7 874 919 45 | 363 631 88 |
| Education | 4 | 3 | 56 | 53 | 278 | 1 890 | 2 168 | 74 | 70 | 1 751 199 89 | 249 099 64 |
| Music | 23 | 23 | 43 | 16 | 197 | 555 | 753 | 3 | 4 | 63 434 40 | 36 838 09 |
| Others | 17 | 18 | 356 | 133 | 6 768 | 5 126 | 11 894 | 243 | 383 | \$8 240 813 80 | 511 466 71 |
| Total | 105 | 105 | 23 879 | 437 | 219 799 | 11 661 | 231 490 | 8 017 | 3 937 | \$73 050 318 | \$89 848 430 76 |

^a Not including one which did not report. ^b Not including Chautauqua university, N. Y. branch of Catholic summer school, Artist-artisan institute, Dudley observatory. ^c Omitting those duplicated. ^d Not including 2262 students of Chautauqua summer school, report received too late for entering in tables. ^e Including all departments of Columbia except law and medicine, Hamilton theological seminary, medical, pharmacy and preparatory departments of Syrian protestant college and academic department of Holy Angels. ^f Including property used by theological department of Alfred, academic department of Kenka, and all departments of Cornell except law, medical and veterinary. ^g Not including Syrian protestant college, for which no separate statistics were reported. ^h Property of hospital and college used in common. ⁱ Not including Hamilton theological seminary, for which no separate statistics were reported. ^j Including all departments of Columbia except law and medicine. ^k Including all departments of Cornell except law, medical and veterinary. ^m Not including the following which made no report: St Bernard's seminary, St Joseph's seminary and Metropolitan college of music.

This table shows 31,490 students in attendance in 1899 in New York colleges, professional, technical and other special schools as compared with 69,776 in New York high schools and academies. The growth of students for the year was 3434 secondary and 1689 higher, a gain of 5.2% secondary and 5.7% higher; a relative gain of .5% in favor of the higher.

The total students reported in 1888 was 11,163, showing a growth in students in 11 years of 182%. 45 institutions reported in 1888 as compared with 105 in 1899.

Comparing the 45 institutions reporting in 1888 with the same institutions in 1899, we find a growth of 635 or 63% in instructors, of 2522 or 60.7% in students in arts and science, of 306 or 120.4% in students in fine arts, of 570 or 86.4% in law students, of 7 or .4% in medical students, of 6 or 1.7% in students of pharmacy, of 45 or 21.3% in dental students. In veterinary medical students alone there is a decrease, 117 or 66.4%.

Comparing the 45 institutions reporting in 1888 with the 105 reporting in 1899, we find a growth of 2281 or 222.5% in instructors, of 5126 or 122.5% in students in arts and science, of 221, or 65.1% in students in fine arts, of 1488 or 80.5 in medical students, of 1535 or 232.9% in law students, of 206 or 58.8% in students in pharmacy, of 287 or 136% in dental students, of 7852 or 231% in students of other schools, besides 4 students in ophthalmology, 793 in theology, 2168 in pedagogy and 752 in music.

The net property of the 45 institutions reporting in 1888 was \$28,477,918.71, while the net property of the 105 institutions reporting in 1899 was \$73,050,218, a growth of 156.5%.

The total expenditures of the 45 institutions reporting in 1888 were \$2,138,746.33, while the expenditures of the 105 institutions reporting in 1899 were \$9,848,430.76, a growth of more than 360.5%. The expenditure per student in 1888 was \$191.59, in 1899 it is \$312.75 an increase of \$121.16 or 63.2%.

The first degrees conferred on examination during 1899 were 30 or .9% less than in 1898. The degrees in arts and science increased 112 or 10%, the professional decreased 176 or 10%, while others increased 34 or 9.7%. The decrease in the professional degrees

plainly reveals the results of the wholesome legislation that is gradually advancing the requirements in general preliminary education for admission to professional practice, while the increase in college and other degrees confirms the opinion that there is a growing belief in the value of higher education.

**Relative receipts and expenditures with comparative value of property
1890-99**

| | Receipts | Expenditures | Buildings and grounds | Library and apparatus | Other property | Total |
|------|-------------|--------------|-----------------------|-----------------------|----------------|--------------|
| 1890 | \$3 176 218 | \$2 738 860 | \$15 129 028 | \$1 806 969 | \$22 019 617 | \$39 045 604 |
| 1891 | 4 248 550 | 3 736 092 | 15 319 798 | 2 018 025 | 26 650 487 | 48 988 305 |
| 1892 | 5 988 785 | 4 244 929 | 18 413 454 | 1 989 253 | 32 484 052 | 52 886 759 |
| 1893 | 5 061 305 | 4 792 986 | 19 937 471 | 2 537 952 | 34 953 065 | 57 428 488 |
| 1894 | 5 184 689 | 4 627 623 | 21 867 029 | 2 837 548 | 36 023 478 | 60 728 055 |
| 1895 | 5 902 932 | 5 551 771 | 25 226 699 | 3 100 949 | 37 977 709 | 66 865 357 |
| 1896 | 6 128 654 | 5 665 798 | 27 027 201 | 3 324 036 | 39 887 807 | 70 289 044 |
| 1897 | 5 881 635 | 5 771 325 | 28 447 974 | 3 542 456 | 45 158 514 | 77 148 944 |
| 1898 | 9 328 099 | 7 788 838 | 32 721 197 | 3 796 234 | 43 546 232 | 80 068 713 |
| 1899 | 10 881 234 | 9 848 431 | 34 813 851 | 3 856 258 | 44 428 232 | 88 098 391 |

^a Not including \$2,013,975.26 for improvements at Columbia's new site.

Receipts have increased \$7,705,016.06 or 243%, expenditures \$7,114,570.76 or 260%, the value of buildings and grounds \$19,684,822.79 or 130%, of library and apparatus \$1,959,298.97 or 103%, of other property \$22,408,665.07 or 102%. The growth in value of total property for the decade is \$44,052,786.83 or 113%.

**New York's higher institutions compared with those of the
United States**

Number, faculty and students

Institutions for higher education in the United States

**UNIVERSITIES, COLLEGES FOR MEN, FOR WOMEN, FOR BOTH SEXES, AND SCHOOLS
OF TECHNOLOGY^a**

| CLASSIFICATION | NO. | FACULTY | | STUDENTS IN ATTENDANCE | | |
|---------------------------|------------------|--------------------|--------------------|------------------------|---------------------|---------|
| | | Men | Women | Men | Women | Total |
| Colleges for men and wom. | ^a 490 | ^b 6 750 | ^b 802 | ^c 58 631 | ^c 17 761 | 76 392 |
| Colleges for women..... | ^d 148 | ^d 642 | ^d 1 817 | ..... | ^d 14 886 | 14 886 |
| Schools of technology.... | ^e 43 | ^e 1 002 | ^e 68 | ^e 8 567 | ^e 1 213 | 9 780 |
| Total..... | 671 | 8 394 | 2 687 | 67 198 | 33 860 | 101 058 |

^a From U. S. education report, corrected for duplicates; ^b table 16; ^c table 17; ^d tables 26 and 31; ^e table 36.

Institutions for higher education in New York state ^a

| CLASSIFICATION | NO. | FACULTY | | STUDENTS IN ATTENDANCE | | |
|---------------------------|-----------------|------------------|------------------|------------------------|--------------------|-------|
| | | Men | Women | Men | Women | Total |
| Colleges for men and wom. | ^b 28 | ^b 687 | ^b 25 | ^c 5 697 | ^c 661 | 6 358 |
| Colleges for women..... | ^d 5 | ^d 66 | ^d 117 | ..... | ^d 1 252 | 1 252 |
| Schools of technology.... | ^e 8 | 76 | ^e 0 | ^e 395 | 0 | 395 |
| Total..... | 31 | 829 | 142 | 6 092 | 1 918 | 8 005 |

From these tables it appears that New York reported 4.6% of the schools; 9.9% of men in the faculty, 5.3% of women; 9.1% of men in attendance, 5.6% of women, 7.9% of students in attendance.

Institutions for higher education in the United States less those in New York state ^a

| | | | | | | |
|----------------------------|-----|-------|-------|--------|--------|--------|
| Colleges for men and wom. | 457 | 6 063 | 777 | 52 984 | 17 100 | 70 084 |
| Colleges for women..... | 143 | 576 | 1 700 | ..... | 13 634 | 13 634 |
| Schools of technology..... | 40 | 926 | 68 | 8 172 | 1 213 | 9 385 |
| Total..... | 640 | 7 565 | 2 545 | 61 106 | 31 947 | 93 053 |

Institutions for higher education in the University of the State of New York ^f

| | | | | | | |
|---------------------------|----|-------|-----|--------|-------|--------|
| Colleges for men and wom. | 29 | 851 | 35 | 5 271 | 1 025 | 6 296 |
| Colleges for women..... | 5 | 92 | 145 | 2 | 2 703 | 2 705 |
| Others..... | 24 | 421 | 209 | 7 029 | 5 971 | 13 000 |
| Total..... | 58 | 1 364 | 389 | 12 302 | 9 699 | 22 001 |

Institutions for higher education in the United States less those in New York state ^a increased by those reported by the University of the State of New York ^f

| | | | | | | |
|---------------------------|-----|-------|-------|--------|--------|---------|
| Colleges for men and wom. | 486 | 6 914 | 812 | 58 205 | 18 125 | 76 330 |
| Colleges for women..... | 148 | 668 | 1 845 | 2 | 16 337 | 16 339 |
| Others..... | 64 | 1 347 | 277 | 15 201 | 7 184 | 22 385 |
| Total..... | 698 | 8 929 | 2 934 | 73 408 | 41 646 | 115 054 |

^a From U. S. education report, corrected for duplicates; ^b table 16; ^c table 17; ^d tables 25 and 31; ^e table 36; ^f from Report of director high school department 1898.

From these corrected tables it appears that New York has 8.3% of the schools; 15.3% of men in the faculty, 13.3% of women; 16.8% of men in attendance, 23.3% of women, 19.1% of students in attendance.

In 1898 (as shown by *Professional education in the United States*) the 532 professional schools of the United States reported 55,257 students, the 45 of New York state 7213 or 13.1%.

Total property and receipts

Institutions for higher education
Including universities, colleges, professional and technical schools

Total property for the United States 1898^a

| | Grounds and buildings | Libraries | Apparatus | Funds or endowments | Total |
|---|--------------------------|---------------------|---------------------|------------------------|----------------------|
| Universities, colleges and technical schools ^b | \$153 881 177 | \$10 273 888 | \$14 110 896 | \$138 576 967 | \$311 842 428 |
| Professional schools ^c | 28 235 144 | ..... | ..... | 20 701 953 | 48 937 097 |
| Total | \$182 116 321 | \$10 273 888 | \$14 110 896 | \$154 278 920 | \$360 779 525 |

Total property for New York state 1898^a

| | | | | | |
|---|---------------------|--------------------|--------------------|---------------------|---------------------|
| Universities, colleges and technical schools ^b | \$25 331 943 | \$1 952 980 | \$2 010 653 | \$25 913 938 | \$55 209 514 |
| Professional schools ^c | 7 531 067 | ..... | ..... | 8 990 735 | 11 511 862 |
| Total | \$32 853 010 | \$1 952 980 | \$2 010 653 | \$29 904 723 | \$66 721 866 |

^a From U. S. education report; ^b tables 23, 23, 34 and 41; ^c tables 3, 4 and 5.

From these tables it appears that of the total value of grounds and buildings, New York state reported 18%, of libraries 19%, of apparatus 14.2%, of funds or endowments 19.3%, of total property 18.5%; of total property excluding that of professional schools 17.7%.

Total receipts for the United States 1898^a

Universities, colleges and technical schools \$25,963,242^b

Total receipts for New York state 1898^a

Universities, colleges and technical schools \$3,768,889^b

New York reported 14.5% of the total receipts.

Correcting the *U. S. education report* by substituting the fuller returns of the state of New York reported by the University^c

| Total property | All institutions | Excluding professional | Receipts (excluding professional) |
|---------------------------------------|------------------|------------------------|-----------------------------------|
| United States ^a | \$360 779 525 | \$311 842 428 | \$25 963 242 |
| Less New York ^a | 66 721 866 | 55 209 514 | 8 768 889 |
| Remainder ^a | \$294 058 159 | \$256 632 914 | \$22 194 358 |
| Increase ^c | 80 063 713 | 66 436 626 | 7 788 964 |
| Corrected total..... | \$374 121 872 | \$323 069 540 | \$29 978 317 |

From this corrected table it appears that New York state reported 21.4% of the total property of all institutions, 20.6% of the total property of all schools excluding professional schools, 25.9% of the total receipts of all schools excluding professional schools.

In 1898 (as shown by *Professional education in the United States*) 286 of the 532 professional schools of the United States reported total property amounting to nearly \$50,000,000, 41 of the 45 New York professional schools reporting \$16,550,968; 262 schools of the United States reported receipts exceeding \$5,000,000, 42 of New York state reporting \$1,539,530; 270 schools of the United States reported expenditures exceeding \$4,500,000, 42 of New York state reporting \$1,265,446. That is New York reported 33% of the total property, 31% of the receipts and 28% of the expenditures for professional education in the United States for the year 1898.

^a From U. S. education report; ^b from tables 24, 30, 35 and 42; ^c from Report of director college department 1898.

Rank in teachers, students

Institutions,

(Table 1 appears in full

Figures in curves show the rank

| Officers of instruction | | Students | |
|-------------------------|--------------------|------------------|----------------|
| 1 (1, 1, 1) | Columbia 339 | 1 Columbia..... | <i>a</i> 2 208 |
| 2 (2, 2, 2) | Cornell..... 329 | 2 Cornell | <i>b</i> 2 190 |
| 3 (5, 6, 6) | Buffalo..... 174 | 3 New York. | 1 783 |
| 4 (3, 3, 3) | New York..... 168 | 4 Syracuse | 1 173 |
| 5 (4, 4, 4) | Syracuse 135 | 5 Buffalo | 631 |
| 6 (6, 5, 5) | Union..... 105 | 6 Union | 487 |

Institutions in table 2, exclud-

(Table 2 appears in full

| | | | | |
|-----------------|----------------------------|----|------------------------------|-------|
| 1 (1, 3, 4) | Nor. col. city N. Y | 82 | 1 Nor. col. city N. Y..... | 1 776 |
| 2 (3, 2, 2) | Vassar | 73 | 2 Col. City of New York.. | 1 017 |
| 3 (2, 3, 3) | Col. City of New York . | 60 | 3 Vassar..... | 624 |
| 4 (4, 6, 1) | Barnard..... | 40 | 4 Barnard | 278 |
| 5 (8, 9, 15) | Manhattan | 36 | 5 Rochester | 218 |
| 6 (26, 18, 20) | Canisius..... | 30 | 6 St Francis Xavier..... | 191 |
| 7 (18, 13, 14) | Robert | 28 | 7 Hamilton..... | 154 |
| 8 (13, 7, 5) | St John's, Fordham..... | 27 | 8 Manhattan | 146 |
| 9 (11, 25, 13) | Adelphi | 26 | 9 Colgate..... | 134 |
| 10 (25, 27, 11) | St Francis | 26 | 10 St Lawrence..... | 125 |
| 11 (14, 14, 10) | Wells | 26 | 11 Adelphi | 108 |
| 12 (19, 23, 21) | Elmira | 25 | 12 Syrian. | 106 |
| 13 (20, 15, 16) | Alfred | 22 | 13 St John's, Fordham.... | 96 |
| 14 (7, 5, 8) | Hamilton | 19 | 14 Wells... .. | 98 |
| 15 (15, 10, 19) | Hobart..... | 18 | 15 Hobart | 92 |
| 16 (6, 11, 18) | St Francis Xavier..... | 18 | 16 Niagara | 92 |
| 17 (24, 24, 27) | St John's, Brooklyn. . | 18 | 17 Polytechnic inst., Br'k'n | 88 |
| 18 (9, 1, 7) | Colgate | 16 | 18 Robert | 82 |
| 19 (5, 4, 12) | Rochester | 15 | 19 Elmira | 78 |
| 20 (21, 22, 23) | St Bonaventure's | 15 | 20 Alfred..... | 69 |
| 21 (22, 23, 25) | Mackenzie..... | 14 | 21 St Bonaventure's | 66 |
| 22 (17, 17, 9) | Polytechnic inst., Br'kl'n | 14 | 22 Mackenzie..... | 56 |
| 23 (16, 26, 17) | Niagara..... | 12 | 23 St Stephen's | 51 |
| 24 (10, 20, 22) | St Lawrence | 12 | 24 St John's, Brooklyn.... | 43 |
| 25 (12, 12, 24) | Syrian | 12 | 25 St Francis | 42 |
| 26 (23, 16, 6) | St Stephen's..... | 9 | 26 Canisius | 41 |
| 27 (27, 21, 28) | Keuka | 7 | 27 Keuka | 18 |
| 28 (28, 29, 29) | Christian college, China. | 4 | 28 Christian college, China. | 10 |
| 29 (29, 19, 26) | Holy Angels..... | — | 29 Holy Angels..... | — |

a Not including students of Barnard or Teachers college, many of whom took courses at Columbia. *b* Not including those taking summer course only. *c* Expenditures on grounds and buildings, not being reported separately, the whole amount expended for

property and expenditures 1899

in table 1

in the bound report)

in the other three columns.

| Net property | | Annual expenditures excluding grounds and buildings | |
|-----------------------------------|-----------------|---|----------------|
| 1 Columbia | \$17 240 839 24 | 1 Columbia..... | \$4 607 289 29 |
| 2 Cornell..... | 11 888 921 87 | 2 Cornell..... | 609 558 55 |
| 3 New York..... | 8 116 887 22 | 3 New York..... | 285 662 79 |
| 4 Syracuse .. | 2 191 758 78 | 4 Syracuse | 222 014 06 |
| 5 Union | 1 193 802 76 | 5 Union..... | 142 219 64 |
| 6 Buffalo .. | 212 148 05 | 6 Buffalo..... | 68 074 18 |
| <i>ing those given in table 1</i> | | | |
| in the bound report) | | | |
| 1 Colgate | d\$3 418 202 64 | 1 Barnard..... | \$302 020 12 |
| 2 Vassar | 2 354 667 | 2 Vassar | 293 808 27 |
| 3 Nor. col. city N. Y..... | 1 467 500 | 3 Col. City of N. Y.. | 187 978 35 |
| 4 Rochester | 1 265 893 31 | 4 Nor. col. city N. Y.. | 165 100 |
| 5 Hamilton | 961 321 14 | 5 St John's, Ford'm.. | 95 304 17 |
| 6 Barnard..... | 914 587 28 | 6 St Stephen's..... | 90 118 89 |
| 7 St John's, Fordham.... | 847 946 85 | 7 Colgate..... | 52 685 93 |
| 8 Col. City of N. Y..... | 836 050 | 8 Hamilton..... | 50 778 07 |
| 9 Manhattan | 692 020 39 | 9 Poly'tc. inst., B'r'k'n | 47 816 94 |
| 10 Hobart | 682 130 79 | 10 Wells | 47 705 45 |
| 11 St Francis Xavier . . . | 658 947 50 | 11 St Francis..... | 43 920 47 |
| 12 Syrian | e646 878 65 | 12 Rochester. | 43 617 15 |
| 13 Robert | 466 271 | 13 Adelphi | 42 664 84 |
| 14 Wells | 406 425 98 | 14 Robert | 41 020 95 |
| 15 Alfred | 342 542 62 | 15 Manhattan | 38 990 98 |
| 16 St Stephen's..... | 338 412 35 | 16 Alfred..... | 35 822 83 |
| 17 Polytech. inst., B'klyn | 337 955 59 | 17 Niagara..... | 30 800 |
| 18 Canisius | 333 408 98 | 18 St Francis Xavier.. | 30 556 85 |
| 19 Holy Angels | f308 321 50 | 19 Hobart..... | 30 860 79 |
| 20 St Lawrence | 300 283 56 | 20 Canisius..... | 29 558 92 |
| 21 Kenka..... | f275 934 | 21 Elmira..... | 26 713 |
| 22 St Bonaventure's..... | 255 300 | 22 St Lawrence..... | 23 164 11 |
| 23 Elmira..... | 248 375 | 23 St Bonaventure's .. | 20 917 |
| 24 St John's, Brooklyn ... | 244 184 | 24 Syrian..... | 12 148 65 |
| 25 Adelphi..... | 229 163 08 | 25 Mackenzie..... | 10 899 21 |
| 26 Niagara..... | 190 500 | 26 Holy Angels | f8 906 50 |
| 27 St Francis..... | 157 290 39 | 27 St John's, B'klyn.. | 5 498 30 |
| 28 Mackenzie. | 153 243 47 | 28 Kenka..... | 5 310 45 |
| 29 Christian col., China.. | 138 685 07 | 29 Chris'n col., China.. | 4 652 08 |

improvement and repairs is deducted. d Including theological department. e Including medical, pharmacy and preparatory departments. f Including academic department.

Rank in teachers, students, Institutions in tables 3 and 4

(Tables 3 and 4 appear in
Figures in curves show the

| Officers of instruction | Students |
|--|---------------------------------------|
| 1 (8, 22, 20) N. Y. p. grad. med. s. & hos. 175 | 1 Roch. Athen'm and m. inst 2727 |
| 2 (11, 28, 18) N. Y. poly. med. s. and hos. 140 | 2 Pratt institute..... 2617 |
| 3 (2, 1, 1) Pratt institute 135 | 3 Cooper union, night sch.. 2355 |
| 4 (4, 5, 2) Teachers college 82 | 4 Teachers college..... 1470 |
| 5 (17, 12, 15) Long Island college hosp. 63 | 5 Cath. summer s. of Amer. 1855 |
| 6 (23, 19, 26) N. Y. hom. m. col. and hos. 44 | 6 New York law school.... 765 |
| 7 (28, 30, 22) W's med. col. of N. Y. infir. 39 | 7 New York trade school.. 550 |
| 8 (9, 26, 19) New York col. of music 38 | 8 N. Y. post gr. m. s. & hosp. 523 |
| 9 (1, 25, 12) Roch. Athen. and m. inst. 38 | 9 N. Y. college of music... 515 |
| 10 (15, 27, 11) New York col. of dent .. 36 | 10 N. Y. state normal col... 352 |
| 11 (36, 46, 35) New York dental school 38 | 11 N. Y. poly. m. s. and hos. 339 |
| 12 (38, 35, 40) N. Y. m. col. & h. for wom'n 33 | 12 N. Y. sch. of appl'd design 308 |
| 13 (3, 4, 9) Cooper union night school 31 | 13 Cooper u., woman's art s. 298 |
| 14 (27, 33, 28) Eclectic medical college 81 | 14 Col. of phar. of city of N. Y. 238 |
| 15 (29, 9, 41) N. Y. state library school 31 | 15 N. Y. college of dentistry 256 |
| 16 (24, 8, 7) Rochester theologic'l sem. 30 | 16 Grand conserv. of music. 287 |
| 17 (26, 6, 10) Auburn theological sem. 28 | 17 Long Island college hosp. 213 |
| 18 (7, 7, 14) New York trade school.. 24 | 18 Hebrew tech. institute... 210 |
| 19 (46, 21, 46) N. Y. ophthalmic hospital 22 | 19 General theological sem.. 149 |
| 20 (5, 32, 17) Cath. summer s. of Amer. 21 | 20 Conr'd Poppenhusen ass'n 145 |
| 21 (16, 41, 29) Grand conserv. of music 21 | 21 Rensselaer poly. inst.... 143 |
| 22 (33, 7, 23) Hamilton theol. sem.... 20 | 22 Union theological sem.... 133 |
| 23 (10, 13, 18) N. Y. state normal col.. 20 | 23 N. Y. hom. med. col. and h. 126 |
| 24 (37, 45, 39) N. Y. col. veterinary surg. 18 | 24 Rochester theol. sem.... 124 |
| 25 (39, 39, 42) American veterinary col. 17 | 25 Brooklyn col. of phar.... 107 |
| 26 (19, 2, 3) General theological sem. 17 | 26 Auburn theological sem. 105 |
| 27 (32, 3, 4) Union theological sem.... 17 | 27 Eclectic medical college.. 78 |
| 28 (6, 23, 5) New York law school.... 16 | 28 Woman's m. c. of N. Y. infir 75 |
| 29 (21, 11, 16) Rensselaer polytech. inst. 16 | 29 N. Y. state library school 61 |
| 30 (12, 17, 27) N. Y. sch. of appl'd design 14 | 30 St Bonav. col., theo. dep't 59 |
| 31 (25, 40, 37) Brooklyn college of phar. 13 | 31 St John's col., theo. dep't 59 |
| 32 (14, 18, 6) Col. of phar. of city of N. Y. 13 | 32 Syrian prot. col., m. dep't 53 |
| 33 (18, 20, 8) Hebrew technical inst.... 12 | 33 Hamilton theo. sem. 52 |
| 34 (43, 24, 38) Christian biblical inst.... 9 | 34 T. S. Clarkson m. s. of tech. 49 |
| 35 (30, 34, 34) St Bonav. col., theo. dep't 9 | 35 Sem. of O'r L'dy of Angels 46 |
| 36 (13, 7, 30) Cooper u., woman's artsc. 8 | 36 New York dental school . 42 |
| 37 (31, 16, 25) St John's col., theo. dep't 8 | 37 N. Y. col. of vet. surgery. 37 |
| 38 (35, 29, 33) Sem. of O'r L'dy of Angels 8 | 38 N. Y. m. c. and hosp. for w'n 23 |
| 39 (34, 10, 21) T. S. Clarkson m. s. of tech. 8 | 39 Amer. veterinary col.... 22 |
| 40 (40, 31, 36) Jewish theo. sem. of Am. 7 | 40 Jewish theol. sem. of Am. 20 |
| 41 (41, 14, 32) St Law. u., Canton theo. s. 7 | 41 St Law. u., Cant'n th. sch. 20 |
| 42 (32, 7, 45) Syrian prot. col., m. dep't 6 | 42 Syrian prot. col., d. of phar 17 |
| 43 (47, 36, 43) Alfred univ., theo. dep't 4 | 43 Christian biblical inst.... 10 |
| 44 (45, 38, 44) German M. Luther sem.. 4 | 44 Hartwick sem., theo. dep. 9 |
| 45 (42, 7, 45) Syrian prot. c., d. of phar. 3 | 45 Ger. Martin Luther sem.. 5 |
| 46 (20, 15, 24) C'rad Poppenhusen ass'n 2 | 46 N. Y. ophthalmic hosp.... 4 |
| 47 (44, 37, 47) Hartwick sem., theo. dep. 2 | 47 Alfred univ., theo. dep't 2 |
| 48 (48, 42, 48) Amer. col. of musicians — | 48 Amer. col. of musicians.. — |

a Including academic department. b Including Woman's art school. c Including
New York state library which is used by the school and also by all teaching institutions in the

property and expenditures 1899

excluding those in table 1

full in the bound report)

rank in the other three columns.

| Net property | Expenditures excluding grounds and buildings |
|--|--|
| 1 Pratt institute. a\$3 617 909 64 | 1 Pratt institute. \$302 460 53 |
| 2 General theol. sem. 3 861 026 15 | 2 Teachers college. 182 407 01 |
| 3 Union theol. sem. 2 108 619 | 3 General theol. sem. ... 82 961 22 |
| 4 Cooper union night sch. b1 714 168 44 | 4 Union theol. seminary 82 450 |
| 5 Teachers college. 1 858 159 94 | 5 New York law school 72 643 40 |
| 6 Auburn theol. sem. 924 530 30 | 6 C. of phar. of city N. Y. 57 152 75 |
| 7 New York trade sch. ... 911 057 94 | 7 Rochester theol. sem. . 52 080 32 |
| 8 Rochester theol. sem. ... 828 995 05 | 8 Hebrew technical inst. 51 046 72 |
| 9 N. Y. state library sch. c623 334 72 | 9 Cooper u. night sch. . 42 817 85 |
| 10 T.S. Clarkson m.s. of tech. 454 742 79 | 10 Auburn theol. sem. ... 40 716 07 |
| 11 Rensselaer poly. inst. ... 846 314 68 | 11 N. Y. col. of dentistry 40 085 82 |
| 12 Long Island col. hos. ... d235 000 | 12 Roch. Athen. & mec. in. 39 006 78 |
| 13 N. Y. state nor. col. ... 233 910 81 | 13 N. Y. state nor. col. ... 38 952 46 |
| 14 St. Law. u., Canton th. sch. 214 745 25 | 14 New York tradeschool 38 758 81 |
| 15 C'rad Poppenh'us'n ass'n 190 113 71 | 15 Long Island col. hosp. 34 476 07 |
| 16 St John's col., theol. dep't 161 880 | 16 Rensselaer poly. inst. . 32 453 65 |
| 17 N. Y. sch. of ap'd design 152 355 81 | 17 Cath. sum. s. of Amer. 28 147 35 |
| 18 Col. of phar. of city N. Y. 126 455 31 | 18 N. Y. poly. m.s. & hos. 27 207 29 |
| 19 N. Y. hom. med. col. & hos. 116 050 | 19 N. Y. college of music 27 081 |
| 20 Hebrew technical inst. . 114 615 07 | 20 N. Y. post-gra. m.s. & h. 25 795 32 |
| 21 N. Y. ophthalmic hosp. d100 500 | 21 T.S. Clarkson m.s. of t. 21 816 |
| 22 N. Y. post gr. m. c. & hos. 96 557 59 | 22 Wom's m. c. of N. Y. inf. 17 426 67 |
| 23 New York law school. . 88 098 25 | 23 Hamilton theol. sem. . 15 954 78 |
| 24 Christian biblical inst. . 86 786 90 | 24 C'r'd Poppenh'usen ass. 14 841 20 |
| 25 Roch. Athen'm & m. inst. 68 701 | 25 St John's col. theol. d. 14 345 76 |
| 26 N. Y. college of music. 62 426 | 26 N. Y. hom. med. c. & h. 13 305 40 |
| 27 N. Y. col. of dentistry. . 58 997 06 | 27 N. Y. sch. of ap. design. 12 039 06 |
| 28 N. Y. poly. m.s. and hosp. 57 337 19 | 28 Eclectic medical col. . 10 044 |
| 29 Sem. of O'r L'dy of Angels 57 300 | 29 Grand con. of music . 9 560 21 |
| 30 Wom's m. c. of N. Y. inf. 52 500 | 30 Cooper u., wom's art s. 9 472 44 |
| 31 Jewish theol. sem. of Am. 44 500 | 31 Syrian prot. col., m. d. 9 389 41 |
| 32 Cath. summer s. of Am. 35 500 | 32 St. Law. u., Cant'n th. s. 8 723 66 |
| 33 Eclectic medical college 35 023 | 33 Sem. of O'r L' of Angels 8 560 |
| 34 St. Bon. col., theol. dep't 30 200 | 34 St. Bon. col., theol. d. . 7 800 |
| 35 N. Y. m. c. & h. for wom. 27 527 32 | 35 New York dental sch. 6 731 39 |
| 36 Alfred univ., theol. dep't 26 306 98 | 36 Jewish theol. s. of Am. 6 025 12 |
| 37 Hartwick sem., theol. d 20 976 40 | 37 Brooklyn col. of phar. 5 863 74 |
| 38 Ger. Martin Luther sem. 14 053 42 | 38 Christian biblical inst. 4 527 66 |
| 39 American veterin. col. . 8 000 | 39 N. Y. col. of veter. surg. 3 958 17 |
| 40 Brooklyn col. of phar. . 6 698 87 | 40 N. Y. m. c. & h. for wom. 3 691 39 |
| 41 Grand conserv. of music 759 65 | 41 N. Y. state library sch. 2 273 69 |
| 42 Amer. col. of musicians 248 75 | 42 Amer. veterinary col. 1 950 |
| 43 Cooper u., wom's artsch e — | 43 Alfred univ. theol. d. . 1 710 |
| 44 Hamilton theol. sem. . f — | 44 Ger. Martin Luther s. 1 619 37 |
| 45 N. Y. col. of veterin. surg. — | 45 Syrian p. c., d. of phar. 1 372 26 |
| 46 New York dental sch. . — | 46 N. Y. ophthalmic hosp. 946 52 |
| 47 Syrian prot. col., med. d. f — | 47 Hartwick sem., theol. d. 810 |
| 48 Syrian prot. c., d. of phar. f — | 48 Amer. col. of musicians 49 88 |

University. d Including hospital. e Given under night school. f No separate statistics reported for this department; given under arts department.

Calendar of *Dates, credentials*

Showing extent of examinations conducted by the college department in 1899. The expenses
by the candidates and involve n

| DATE | Law, medical, dental and vet- erinary student | M. D. degree | D. D. S. degree | Medical license | Dental license | Veterinary license |
|------------------|---|-----------------|--------------------|--|--|--|
| 1898 S 27-30 | Albany, Buffalo, New York, Syra- cuse | ..... | ..... | Albany, Buffalo, New York, Syracuse | Albany, Buffalo, New York, Syracuse | Albany, Buffalo, New York, Syracuse |
| D 13-14 | ..... | ..... | ..... | ..... | ..... | ..... |
| D | ..... | ..... | ..... | ..... | ..... | ..... |
| 1899 Ja 23-27 | Albany, Buffalo, New York, Syra- cuse | ..... | ..... | Albany, Buffalo, New York, Syracuse | Albany, Buffalo, New York, Syracuse | Albany, Buffalo, New York, Syracuse |
| Ja 31 | ..... | ..... | ..... | ..... | ..... | ..... |
| F 16 | ..... | ..... | ..... | ..... | ..... | ..... |
| Mr 23-31 | Albany, Buffalo, New York, Syra- cuse | ..... | ..... | ..... | ..... | ..... |
| Ap 4-7 | ..... | ..... | ..... | Albany, Buffalo, New York, Syracuse | Albany, Buffalo, New York, Syracuse | Albany, Buffalo, New York, Syracuse |
| My 16-19 | ..... | ..... | ..... | Albany, Buffalo, New York, Syracuse | Albany, Buffalo, New York, Syracuse | Albany, Buffalo, New York, Syracuse |
| Je 12-16 | Albany, Buffalo, New York, Syra- cuse | New York | New York | Albany, Buffalo, New York, Syracuse | Albany, Buffalo, New York, Syracuse | Albany, Buffalo, New York, Syra- cuse, Ithaca |
| Je 20-23 | ..... | ..... | ..... | ..... | ..... | ..... |

examinations 1899*and subjects*

of examinations in medicine, dentistry, veterinary medicine and public accounting are borne outlay whatever of state money.

| Public accounting | State business credentials | Library | Subjects |
|----------------------|--|---|--|
| | | | 29 academic, 7 medical, 8 dental, 7 veterinary |
| New York... | | | 4 subjects |
| | | Albany..... | Elementary cataloguing |
| | | | 62 academic, 7 medical, 8 dental, 7 veterinary |
| | | Albany..... | Elementary dictionary cataloguing |
| | | Albany..... | Advanced dictionary cataloguing |
| | | Albany..... | 25 academic, 6 library |
| | | | 7 medical, 8 dental 7 veterinary |
| | | Albany, N. Y. Burlington, Vt. Cambridge, Mass. Cazenovia, N. Y. Chicago, Ill. Cleveland, O. Dunkirk, N. Y. Fort Plain, N. Y. Greenport, L. I. Hartford, Ct. Jamestown, N. Y. Lestershire, N. Y. Middletown, Ct. Norwich, Ct. Philadelphia, Pa. St Albans, Vt. St Louis, Mo. Wellesley, Mass. Yonkers, N. Y. | 7 medical, 8 dental, 6 veterinary |
| New York, Buffalo | Albany, Brooklyn, Buf falo, Fairfield, Hud- son, Middletown, New York, Syracuse | Albany, N. Y. Burlington, Vt. Cambridge, Mass. Cazenovia, N. Y. Chicago, Ill. Cleveland, O. Dunkirk, N. Y. Fort Plain, N. Y. Greenport, L. I. Hartford, Ct. Jamestown, N. Y. Lestershire, N. Y. Middletown, Ct. Norwich, Ct. Philadelphia, Pa. St Albans, Vt. St Louis, Mo. Wellesley, Mass. Yonkers, N. Y. | 81 academic 6 business, 7 medical 8 dental, 7 veterinary, 8 library, 4 C. P. A. |
| | | Albany..... | 8 library |

Examinations outside the state

Under authority granted 11 June 1891, and 14 Dec. 1892

| PLACE | Building | Examiner |
|----------------------|------------------------------|------------------------|
| Burlington, Vt..... | Univ. of Vt. lib..... | Edith Emily Clarke |
| Cambridge, Mass..... | Episcopal theolog. sem. lib. | Edith Davenport Fuller |
| Chicago, Ill..... | John Crerar lib..... | Mary Elizabeth Hawley |
| Cleveland, O..... | Public lib..... | William H. Brett |
| Hartford, Ct..... | Public lib..... | Caroline M. Hewins |
| Middletown, Ct..... | Wesleyan univ. lib..... | W. J. James |
| Norwich, Ct..... | Peck lib..... | Harry W. Kent |
| Philadelphia, Pa.... | Drexel institute..... | Alice Bertha Kroeger |
| St Albans, Vt..... | High school..... | F. A. Bagnall |
| St Louis, Mo..... | Public lib..... | Frederick M. Crunden |
| Wellesley, Mass..... | Wellesley college lib. ... | Lydia Boker Godfrey |

PROFESSIONAL SCHOOLS

THEOLOGY, LAW, MEDICINE, DENTISTRY, PHARMACY, VETERINARY
MEDICINE

Action by the regents

False personation. 21 Dec. 1899. During the past nine years there have been nine cases of false personation at the New York professional examinations. While relatively so few, the absolute integrity of these examinations, at which the regents have always aimed, demands that the system be protected against even such occasional attempts. It was therefore

Voted, That the director of the college and high school departments is authorized to secure satisfactory identification of candidates in the professional examinations, incurring such expense as may be necessary for the purpose.

Professional education. Active work on the register of professional education began in May 1898, when letters were addressed to the medical authorities of the United States and Canada. Between that date and August information covering the other professions was requested from executive officers throughout the United States and Canada. During August and September the same information was sought through foreign correspondents.

During October 1898, the professional schools of the United States were asked for definite information concerning their courses and facilities, and foreign governments for official information.

Mar. 16, 1899, Dr Bayard Holmes, secretary of the Association of American medical colleges, asked that an abstract be made from the announcements of the medical schools of the United States to show whether they were living up to the standard of the college association, and on the same date Dr Nicholas Murray Butler, in behalf of the educational exhibit at the Paris exposition, asked us to undertake the preparation of a monograph on professional education in the United States. It seemed wise under the circumstances to change the plan and scope of the work and to issue the register in two series: 1) Professional education in the United States, and 2) Professional education in foreign countries.

During April and May 1899, the abstracts were made for Dr Holmes and the *Condition of medical colleges in the United States* was printed in the bulletin of the American academy of medicine for June. During April, May and June 1899, statements from the statutes and requirements of the professional schools were submitted to the executive officers for revision and correction. June 23, replies had been received from 95% of the letters sent throughout the United States and Canada and from at least 75% of those sent to foreign countries.

The work on the monograph was completed in October and the bulletins of the first series on professional education, seven in number, have now been issued, viz, 1) General, 2) Theology, 3) Law, 4) Medicine, 5) Dentistry, 6) Pharmacy, 7) Veterinary medicine.

The second series of professional education in foreign countries is in course of preparation.

*Law, medical, dental***Examinations and**

| | 1889 | 1890 |
|---|-------|-------|
| Examinations | a20 | 533 |
| Answer papers written | 2 475 | 4 902 |
| " accepted | 1 538 | 3 590 |
| " rejected | 937 | 1 312 |
| Per cent of papers accepted | 62.1 | 73.6 |
| " rejected | 37.8 | 27.3 |
| Law student certificates issued | 347 | 615 |
| " on examination | | |
| " on equivalents | | |
| Per cent law student certificates issued on equivalents | | |
| Academic equivalent certificates issued | | |
| " on examination | | |
| " on equivalents | | |
| " on partial equivalents | | |
| Per cent academic equivalent certificates issued on equivalents | | |
| " on partial equivalents | | |
| Medical student certificates issued | | 491 |
| " on examination | | |
| " on equivalents | | |
| " on partial equivalents | | |
| Per cent med. student certificates issued on equivalents | | |
| " on partial equivalents | | |
| Dental student certificates issued | | |
| " on examination | | |
| " on equivalents | | |
| " on partial equivalents | | |
| Per cent dental student certificates issued on equivalents | | |
| " on partial equivalents | | |
| Veterinary student certificates issued | | |
| " on examination | | |
| " on equivalents | | |
| " on partial equivalents | | |
| Per cent veterinary student certificates issued on equivalents | | |
| " on partial equivalents | | |
| Total certificates issued | 347 | 1 106 |
| " on examination | | |
| " on equivalents | | |
| " on partial equivalents | | |
| Per cent certificates issued on examination | | |
| " on equivalents | | |
| " on partial equivalents | | |

a Law student examinations only.

b Law and medical student examination.

c Law, medical and dental student examination.

d Including Chautauqua, answer papers written 23,080 ; answer papers accepted 14,286.

and veterinary students

certificates 1889-99

| 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 |
|-------|-------|-------|--------|--------|---------|---------|---------|---------|
| b11 | b8 | b7 | b6 | c5 | c4 | e4 | e4 | e4 |
| 3 756 | 5 093 | 8 087 | 13 968 | 16 612 | d33 042 | f23 647 | g23 084 | h27 111 |
| 2 814 | 3 365 | 4 966 | 9 880 | 11 468 | d14 263 | f18 074 | g14 437 | h15 523 |
| 942 | 1 728 | 3 102 | 4 638 | 5 154 | 8 799 | 10 873 | 9 207 | 11 588 |
| 74.9 | 66.1 | 61.6 | 66.8 | 68.9 | 61.8 | 55.3 | 61 | 57.2 |
| 25.1 | 38.9 | 38.4 | 33.2 | 31.02 | 38.1 | 44.7 | 38.9 | 42.7 |
| 574 | 617 | 589 | 475 | 721 | 817 | 790 | 781 | 878 |
| 392 | 115 | 62 | 424 | 500 | 439 | 331 | 383 | 499 |
| 182 | 502 | 527 | 51 | 221 | 378 | 399 | 248 | 379 |
| 31.7 | 80. | 89.1 | 10 7 | 30.6 | 46.2 | 51.1 | 47.6 | 43.05 |
| ..... | ..... | 28 | 259 | 285 | 285 | 295 | 209 | 232 |
| ..... | ..... | 2 | 24 | 26 | 67 | 28 | 16 | 30 |
| ..... | ..... | 26 | 235 | 259 | 218 | 267 | 193 | 178 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 14 |
| ..... | ..... | 92.8 | 90.7 | 90.8 | 76.4 | 90.5 | 92.3 | 80.1 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 6.8 |
| 1 189 | 1 109 | 785 | 947 | 1 256 | 1 475 | 1 072 | 914 | 918 |
| 174 | 148 | 187 | 395 | 656 | 634 | 399 | 307 | 298 |
| 1 015 | 961 | 648 | 562 | 600 | 841 | 673 | 607 | 584 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 36 |
| 85.4 | 87 | 83.5 | 58.2 | 47.7 | 57 | 62.7 | 66.4 | 68.9 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.94 |
| ..... | ..... | ..... | ..... | 17 | 78 | 161 | 108 | 154 |
| ..... | ..... | ..... | ..... | 10 | 61 | 88 | 45 | 58 |
| ..... | ..... | ..... | ..... | 7 | 27 | 73 | 63 | 90 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 6 |
| ..... | ..... | ..... | ..... | 41.2 | 34.6 | 45.3 | 58.3 | 58.4 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.89 |
| ..... | ..... | ..... | ..... | ..... | ..... | 6 | 7 | 25 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 14 |
| ..... | ..... | ..... | ..... | ..... | ..... | 2 | 5 | 10 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 |
| ..... | ..... | ..... | ..... | ..... | ..... | 33.3 | 71.4 | 40 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .04 |
| 1 763 | 1 726 | 1 403 | 1 631 | 2 279 | 2 655 | 2 314 | 1 969 | 2 192 |
| 566 | 263 | 201 | 843 | 1 132 | 1 191 | 900 | 753 | 894 |
| 1 197 | 1 463 | 1 201 | 838 | 1 087 | 1 464 | 1 414 | 1 216 | 1 241 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 57 |
| 32.1 | 15.2 | 14.3 | 50.1 | 52.3 | 44.8 | 38.8 | 33.2 | 41.2 |
| 67.8 | 84.7 | 86.6 | 49.8 | 47.6 | 55.1 | 61.1 | 61.7 | 56.6 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.6 |

e Law, medical, dental and veterinary student examination.

f Including Chautauqua, answer papers written 23,694; answer papers accepted 13,116.

g Including Chautauqua, answer papers written 23,647; answer papers accepted 14,434.

h Including Chautauqua and Watervliet, answer papers written 27,359; answer papers accepted 15,658.

The preceding table shows an increase for 1899 over 1898 of 3477, or 14.7% in the number of papers written, and over 1889 of 24,636 or 995.3%, an average annual increase of 99.5% for 10 years. There was an increase for 1899 over 1898 of 1096, or 7.5% in the number of answer papers accepted, and over 1889 of 13,985 or 909.2%, an average annual increase of 90.9% for 10 years. There was an increase for 1899 over 1898 of 223, or 11.3% in the number of professional certificates issued and over 1889 of 1845 or 532%, an average annual increase of 53.2% for 10 years.

Law

Law students in New York's state 1889-99

| NAME OF INSTITUTION | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 |
|--|------|------|-------|-------|-------|-------|
| Albany law school..... | 48 | 50 | 21 | 41 | 56 | 42 |
| Columbia university, faculty of law.. | 492 | 456 | 625 | 318 | 255 | 248 |
| Cornell university, college of law.... | .... | 105 | 122 | 152 | 204 | 229 |
| New York law school..... | .... | .... | .... | 381 | 508 | 493 |
| New York university law school.... | 107 | 142 | 184 | 241 | 216 | 251 |
| Metropolis law school..... | .... | .... | .... | 103 | 168 | 162 |
| Syracuse university, school of law.... | .... | .... | .... | .... | .... | .... |
| University of Buffalo, law school.... | .... | 26 | 48 | 60 | 46 | 50 |
| Total..... | 642 | 779 | 1 000 | 1 296 | 1 453 | 1 475 |

| NAME OF INSTITUTION | 1895 | 1896 | 1897 | 1898 | 1899 |
|--|-------|-------|-------|-------|-------|
| Albany law school..... | 38 | 43 | 57 | 65 | 79 |
| Columbia university, faculty of law..... | 261 | 333 | 364 | 367 | 349 |
| Cornell university, college of law..... | 226 | 252 | 240 | 253 | a164 |
| New York law school..... | 533 | 609 | 642 | 741 | 765 |
| New York university law school.... | 293 | 528 | 610 | 628 | 637 |
| Metropolis law school..... | 174 | .... | .... | .... | .... |
| Syracuse university, school of law..... | .... | 28 | 55 | 60 | 81 |
| University of Buffalo, law school..... | 61 | 69 | 73 | 104 | 116 |
| Total..... | 1 585 | 1 862 | 2 041 | 2 218 | 2 194 |

a Not including graduate students.

While this table shows a decrease in law students of 24 or 1% for the year 1899, there was a growth of 1552 or 241.7% for the decade; an annual average increase of nearly 24.2%.

The total number of law students in the United States for 1898, as shown by *Professional education in the United States*, was 11,783, in New York state 2259. That is 19.2% of the law students in the United States are found in New York state schools. 27 of the 86 law schools in the United States reported total property \$3,053,265, and the 7 of New York state \$938,136 or 30.7%.

Law school summaries - 1889-99

| Year | Institutions | Officers of inst. | STUDENTS | | | | | L. B. and L. M. degrees conferred | Prizes | Fellowships | Library, vols. | TOTAL | | |
|------|--------------|-------------------|----------|--------------|--------------|-------|-----------------|-----------------------------------|--------|-------------|----------------|----------|-----------|--------------|
| | | | Graduate | L. B. course | Unclassified | Total | Holding degrees | | | | | Property | Receipts | Expenditures |
| 1889 | 4 | 11 | ... | 642 | ... | 642 | ... | 284 | \$850 | ..... | 1 200 | c32 800 | a\$14 771 | a\$14 971 |
| 1890 | 5 | 70 | 9 | 770 | ... | 779 | ... | 142 | 700 | ..... | 1 098 | c32 825 | a21 929 | a21 929 |
| 1891 | 5 | 70 | 9 | 986 | 5 | 1 000 | 79 | 194 | 850 | ..... | a8 741 | c34 231 | a20 625 | a20 625 |
| 1892 | 7 | 79 | 38 | 1 102 | 156 | 1 296 | 281 | 337 | 1 845 | \$1 000 | b32 269 | d41 607 | a73 564 | a59 589 |
| 1893 | 7 | 71 | 54 | 1 261 | 188 | 1 453 | 427 | 434 | 1 445 | 1 100 | b43 206 | d63 863 | a87 785 | a82 882 |
| 1894 | 7 | 108 | 59 | 1 181 | 235 | 1 475 | 501 | 425 | 1 595 | 900 | 81 350 | a403 158 | b124 857 | b145 843 |
| 1895 | 7 | 107 | 76 | 1 237 | 272 | 1 585 | 575 | 398 | 1 720 | 2 000 | b48 502 | a408 422 | b134 057 | b167 290 |
| 1896 | 7 | 131 | 72 | 1 451 | 339 | 1 863 | 621 | 422 | 1 980 | ..... | 73 045 | b337 805 | b165 945 | b187 187 |
| 1897 | 7 | 129 | 80 | 1 646 | 315 | 2 041 | 652 | 489 | 1 579 | 1 500 | 76 286 | b541 592 | b187 152 | b190 878 |
| 1898 | 7 | 115 | 83 | 1 744 | 391 | 2 218 | 714 | 546 | ..... | ..... | 77 856 | 938 135 | 225 779 | 227 175 |
| 1899 | 7 | 120 | 84 | 1 659 | 451 | 2 194 | 721 | 460 | ..... | ..... | 86 792 | 956 088 | 221 910 | 238 014 |

a Not including two schools which did not report.

b Not including one school which did not report.

c Statistics from one school only; others did not report.

d Not including three schools which did not report.

This table shows a growth in 10 years of three or 75% in institutions; in eight years of 642 or 812% in students holding degrees, an average annual increase of 101%; in 10 years of \$923,738 or 2859% in total property, an average annual increase of 285.9%; in 10 years of \$207,138 or 1402% in total receipts, an average annual increase of 140.2%; in 10 years of \$223,042 or 1489% in total expenditures, an average annual increase of 148.9%. The law schools of Buffalo, Columbia and Union universities were not included in total property reported in 1889; Buffalo and Columbia were omitted also under total receipts and expenditures. Adding to the 1889 figures the first reported by the omitted institutions, the growth in property is \$790,763 or 478%, an average annual increase of 47.8%; in receipts \$167,422 or 307%, an average annual increase of 30.7%; in expenditures \$154,461 or 185% an average annual increase of 18.5%.

The 743 degrees held by law students in 1899 were classified as follows: B. A. 462; B. S. 81; Ph.B. 56; C.E. 2; LL.B. 67; M. D. 5; other degrees 70.

Medicine

Action by the regents

Boston college of physicians and surgeons. 21 Dec. 1899. A petition having been received for registration of the College of physicians and surgeons of Boston for matriculates before Jan. 1, 1898, who receive the M. D. degree before Jan. 1, 1902, it was

Voted, That such registration be refused till a more satisfactory report is received from the Massachusetts state medical society.^a

Medical examiners. In accordance with the law, nominations were submitted to the regents from the state societies as follows:

State medical society. A. Walter Suiter M. D., Herkimer, George R. Fowler M. D., Brooklyn; Hamilton D. Wey M. D., Elmira; Daniel Lewis M. D., New York.

^a This application was reconsidered and provisional registration was accorded Mar. 29 1900.

Homeopathic medical society. William B. Gifford M. D., Attica; William Morris Butler M. D., Brooklyn; George E. Gorham M. D., Albany; John B. Garrison M. D., New York.

Eclectic medical society. Arthur R. Tiel M. D., Matteawan; J. P. Nolan M. D., New York; H. S. Blackfan M. D., Shushan; H. P. Hubbell M. D., Stamford.

Drs A. Walter Suiter and George R. Fowler of the state medical society, Dr William Morris Butler of the homeopathic medical society and Drs Arthur R. Tiel and J. P. Nolan of the eclectic medical society were appointed their own successors. Dr William B. Gifford was appointed in place of Dr John McE. Wetmore, who was not renominated by the homeopathic medical society.

Revocations and suspension of licenses. Mar. 21, 1899, the following notice was issued:

To the members of the state examining boards for license to practise medicine

The regents of the University of the State of New York at a meeting held Feb. 21, 1899, on recommendation of the state board of medical examiners representing the medical society of the state of New York, revoked for cause, under laws of 1893, ch.661 §140, as amended in 1895 and 1896, the license of E. J. Waddey granted as the result of the licensing examinations held in January 1895.

On Mar. 19, 1896, the license of Sheridan E. Gardiner was indefinitely suspended for cause.

I am directed by the regents to send notice of the above facts to members of state examining boards in other states who it is thought are entitled to know of such action.

MELVIL DEWEY

Secretary

Correspondence

Question papers. In accord with recommendation of the state board of medical examiners Jan. 31, 1899 the cooperation of the faculties of the medical schools was requested in the following communication:

Regents office, Albany N. Y., 14 F 99

We send herewith a copy of the set of questions used at the last examination for license to practise medicine. We realize

that in these tests we can only approximate the standard aimed at through the active cooperation of the teachers in our medical schools. Will you kindly ask *each* member of your faculty to prepare for study here a set of 30 questions which in his judgment would constitute a fair examination in his topic? Members of the question committee are anxious to receive in this way the views of the medical school faculties, and I feel sure that a general response to this request, which we should like before March 15, would help us greatly in our endeavor to improve the character of these examinations.

JAMES RUSSELL PARSONS JR

Director

Registration. Oct. 16, 1899 the deans of certain medical schools out of the state were asked to submit certificates as indicated below as the basis for provisional registration:

Complaint has reached us that certain medical schools out of the state graduate on less than one full term of lectures in the same calendar year students who have failed to secure a degree in New York. It will be absolutely necessary for us, under the marked section of the New York law sent herewith, to exclude even from partial registration any medical school that takes this course. As our revised list of medical schools is now in the hands of the printer, you will place us under obligations if you will send us a certificate under seal of the school that after Jan. 1, 1900 the degree of M. D. will not be conferred by you on any student who has attended with you less than one full course of medical lectures of not less than six full months. In the absence of such a certificate, we may not be able to secure information that would warrant us in continuing this registration of your school, even for matriculates before Jan. 1, 1898 who receive the M. D. degree before Jan. 1, 1902.

JAMES RUSSELL PARSONS JR

Director

Report of secretary of the University

Medical receipts and disbursements. July 25, the secretary sent to the 21 state medical examiners the following statement of receipts and expenditures connected with the administration of the medical laws from Aug. 1, 1898 to July 31, 1899;

To the state boards of medical examiners

As the executive officer of the University, I transmit herewith a summary of the records and vouchers in this office (all of which are open to your inspection) of the receipts and expenditures connected with the medical examinations provided for by laws of 1890, ch.507, and laws of 1893, ch.661 §140-53, but not including the medical student examinations, the expenses of which are borne by the department.

From Aug. 1, 1898, to July 31, 1899, there were five examinations for license to practise medicine, at which 836 candidates appeared before the three boards, as follows:

| | |
|--------------------------------------|-------|
| State medical society. | 738 |
| Homeopathic medical society. | 68 |
| Eclectic medical society | 30 |
| | <hr/> |
| | 836 |
| | <hr/> |

In accordance with law, the regents have paid the expenses properly chargeable to these examinations and have on hand at the end of the academic year \$10,260.21, which is to be apportioned among the three boards pro rata according to the number of candidates examined by each. This gives to the

| | |
|-----------------------------|-------------|
| State board | \$9 057.46 |
| Homeopathic board | 834.56 |
| Eclectic board | 368.19 |
| | <hr/> |
| | \$10 260.21 |
| | <hr/> |

MELVIL DEWEY

Secretary of the University

Receipts

| | |
|---|----------|
| 44 \$10 fees, 1 Aug. 1898 to 1 Aug. 1899. | \$440 |
| 2 \$15 fees, 1 Aug. 1898 to 1 Aug. 1899. | 30 |
| 694 \$25 fees, 1 Aug. 1898 to 1 Aug. 1899. | 17 350 |
| | <hr/> |
| | \$17 820 |

Fees returned

| | | |
|--|------|----------|
| 7 \$10 fees, 1 Aug. 1898 to 1 Aug. 1899. | \$70 | |
| 21 \$25 fees, 1 Aug. 1898 to 1 Aug. 1899. | 525 | 595 |
| | | <hr/> |
| Total receipts. | | \$17 225 |

Payments

| | | |
|---|----------|-------------------------|
| Expenses of examiners. | \$108 93 | |
| Printing. | 360 59 | |
| Salary of M. J. Lewi M.D. for ser- vices rendered to college department as recommended by conference of state boards of medical examiners, Jan. 15, 1892, and voted by regents Dec. 14, 1892, from Aug. 1, 1898 to Aug. 1, 1899, at \$50 a month. | 600 | |
| Local expenses of conducting examina- tions at various points throughout the state. | 1 023 36 | |
| Salary of medical clerk, Katharine L. McDonough, Aug. 1, 1898 to Aug. 1, 1899, and for extra time. | 912 50 | |
| Books for use of medical examiners. | 34 08 | |
| Medical register | | |
| H. L. Taylor's expenses to Washington. | \$55 | |
| Index cards | 5 33 | |
| Translation of Japanese law. | 10 | |
| | <hr/> | \$70 33 |
| Services of examiners and clerks in Albany in addition to medical clerk | \$3 855 | |
| | <hr/> | \$6 964 79 |
| Balance to be apportioned. | | <hr/> <hr/> \$10 260 21 |

Special note to state board of examiners

Pro rata distribution $\frac{788}{1000}$ of \$10,261.21 is..... \$9 057 46

Expenses of secretary 1 Aug. 1898 to

1 Aug. 1899, as follows:

| | | |
|---|--------|------------|
| Salary of secretary M. J. Lewi..... | \$600 | |
| Stenographer. | 166 | |
| Telegrams. | 9 58 | |
| Express. | 1 20 | |
| Telephone. | 4 | |
| Postage. | 34 36 | |
| Affidavits. | 2 50 | |
| Stationery | 6 70 | |
| Car fare. | 40 | |
| Rubber stamps. | 50 | |
| Moving effects of secretary of state board of medical examiners..... | 3 | |
| Traveling expenses of examiners.... | 239 42 | |
| | | <hr/> |
| | | 1 067 66 |
| | | <hr/> |
| | | \$7 989 80 |

Total amount paid during seven years since origin,
not including this year, for traveling expenses
of members of the state board in attendance on
meetings at various places, which expenses are
properly chargeable to the state board and which
amount will be divided pro rata between the
eclectic and homeopathic state boards..... 679 24

Balance to be divided among seven ex-
aminers. \$7 310 56

\$1044.36 was apportioned to three examiners and \$1044.37 to
four.

Special note to eclectic board of examiners

| | |
|--|-----------------|
| Pro rata distribution $\frac{30}{838}$ of \$10,260.21 is..... | \$368 19 |
| Traveling expenses of examiners 1 Aug. 1898, to 1 Aug. 1899 | 52 44 |
| To be paid to the secretary..... | <u>\$315 75</u> |

Medical council

Annual meeting. The second meeting of the medical council was held at the regents office in the capitol, Albany, Jan. 30, 1900.

The meeting was called to order by Dr Raymond at 12:30, all members of the council being present, also James Russell Parsons jr, acting secretary of the University.

The following officers were elected for the ensuing year:

President Dr J. H. Raymond, Long Island college hospital

Secretary Dr M. D. Mann, University of Buffalo

Voted, That the officers of the council consider and report to the regents regarding the term and tenure of office likely to secure the fairest representation of the medical schools of the state.

Dr Mann stated that a suggested course of study preliminary to the study of medicine had been submitted to the medical schools of the state, and that all favored the general plan, though only one, the Long Island college hospital, had made a detailed report.

Voted, That as the general plan has been approved, the matter be referred to a committee, of which the president of the council shall be the chairman, to correspond with the medical schools and perfect the details.

This committee consists of Drs Raymond, Le Fevre and Dearborn.

Dr Dearborn stated that the American institute of homeopathy had recommended that the medical schools belonging to that association require for admission a preliminary education equivalent at least to graduation from a registered high school or academy.

Recommended, That candidates for admission to the licensing examination be required to present credentials from each institution attended.

Voted, That the director of the college department be requested to continue the publication by schools of the results of the licensing examinations.

A committee consisting of Drs Mann and Didama was appointed to report on the possibility of securing more uniformity in courses of study and in conditions for admission to advanced classes in medical schools.

The secretary was instructed to inquire of the state board of medical examiners whether the present medical syllabus was to be considered as still in force in preparing students for the licensing examinations.

Adjourned at 2.30 p. m.

Dr M. D. MANN

Secretary medical council

The record of the joint session is found in the minutes of the state board of medical examiners representing the Medical society of the state of New York.

State boards of medical examiners

REPRESENTING THE MEDICAL SOCIETY OF THE STATE OF NEW YORK

Summary of minutes of special meeting held at the regents office
Albany N. Y. 30 Jan. 1899

Present — All members except Dr Fowler, also by request Sec. Dewey and Director Parsons.

Voted, That Dr Lewi be requested to congratulate Dr Fowler on the successful termination of his services for the U. S. government.

Voted, That beginning with the academic year 1901, the topics be rearranged and reassigned as follows, subject to approval by the other state boards of medical examiners.

| | |
|---------------------------------|-----------|
| Obstetrics | Potter |
| Anatomy and physiology | Ely |
| Pathology and diagnosis | Creveling |
| Chemistry and hygiene | Suiter |
| Therapeutics and materia medica | Beach |
| Practice of medicine | Lewi |
| Surgery | Fowler |

Dr Lewi stated that he had visited the medical schools in greater New York and had secured detailed criticisms of the question papers. He read at length from letters received by him.

Dr Lewi stated his objections to the publication of comparative statistics of the various medical schools. It was decided however that for the present no change should be made in this respect.

The following officers were elected for the ensuing year:

President William Warren Potter M.D.

Secretary Maurice J. Lewi M.D.

Question committee Maurice J. Lewi M.D. and George Ryerson Fowler M.D.

The proposed codification of professional laws by the statutory revision commission was introduced by Sec. Dewey, who outlined the advantages of making medical, dental, veterinary and C. P. A. acts a part of the education law. Mr Parsons presented a draft of the medical law with the following suggested amendments approved by the medical council:

1 Change of year from August 1 to October 1 to correspond with the fiscal year.

2 Change of period of medical study required for a degree from four years of nine months to four years of eight months.

3 Allowance of first year of four years course to graduates of registered college courses according to bill that passed the legislature two years ago.

4 Giving the regents power to indorse the credentials of licensees of other state boards in the case of applicants who have preliminary and professional qualifications not lower than those fixed by the New York law.

5 Shortening of law about one fifth and simplification by omission of transitory exemptions and insertion of clause that matriculates before passage of amended bill are entitled to all privileges accorded by law it supersedes.

Recess taken till January 31.

Voted, That the board recommend to the regents that Dr Waddey's license be revoked, and that the regents be requested to consult the attorney general as to their powers in the matter of farther punishment.

Voted, That, when notification of revocation of license is sent to other examining boards, Dr Gardner be included in the same notification.

Recommended, That an unmounted photograph be required in the case of applicants for license to practise medicine.

Recess taken till February 1.

Dr Suiter requested that the candidates be instructed not to use a lilac colored pencil, as the color was very trying to the eyes, specially at night; that a space of two or three lines be left after each answer; that interlineations, if made at all, be distinct and legible; that no abbreviations be used; and that the pages be put together in 1, 2, 3 order.

Sec. M. J. Lewi presented his annual report, which was referred to Drs Ely and Potter and finally adopted as follows:

During the academic year there were five licensing examinations in September, January, April, May and June. These were held simultaneously at Buffalo, Syracuse, Albany and New York.

During the year 869 candidates appeared before the state medical boards and the total rejections were 217 or 24.97%. Before the board representing this society 809 candidates appeared, of whom 202, or 24.96%, were rejected. Before the homeopathic board 36 candidates appeared, of whom 10, or 27%, were rejected. Before the eclectic board 24 candidates appeared of whom 5, or 20.8%, were rejected.

The rejections by topics were: anatomy 55; physiology and hygiene 41; chemistry 67; surgery 54; obstetrics 62; pathology and diagnosis 58; therapeutics, practice and materia medica 78.

Since the creation of the boards, 3972 candidates have been examined, of whom 921, or 23.18%, have been rejected.

By the action of the regents, after consultation with all parties interested, there will be four examinations annually beginning with the year 1900.

Under exemptions in the medical laws, the regents have licensed during the year 143 physicians. On the recommenda-

tion of this board 10 diplomas issued before the law took effect have been legally indorsed, entitling the holders to register in any county of the state.

The following recommendations are made to the regents:

1 That as soon as practicable the subjects of examination be rearranged as follows:

a Pathology and diagnosis, now grouped under one head, to be divided into: 1) pathology, 2) diagnosis.

b Therapeutics, practice and materia medica, now grouped under one head, to be divided into: 1) practice of medicine, 2) materia medica and therapeutics.

c Anatomy and physiology, now grouped as two topics, to be united on one sheet, the number of questions in both topics not to exceed 15.

d Chemistry and hygiene, now grouped as two topics, to be united on one sheet, the number of questions in both topics not to exceed 15.

2 That the state medical schools be requested to furnish for the use of the question committee 30 questions on each branch taught by each member of their respective faculties.

3 That with his application each candidate submit an unmounted photograph to insure identification.

Statistics from the advance sheets of Director Parsons's annual report for 1898 show the marked superiority of the graduates of New York state medical schools in the licensing tests. From New York state graduates there was an average of one rejected answer paper to three candidates, from graduates of other schools in the United States, an average of one rejected answer paper to each candidate, and from graduates of foreign medical schools, an average of two rejected answer papers to each candidate, due partly perhaps to ignorance of English.

The conclusion is evident that New York state medical schools graduate men better fitted for the practice of medicine than the schools of other states.

It is the purpose of the board to cooperate with all medical schools in an attempt to elevate the standard of medicine. With this object in view, suggestions and criticisms of our work are not only accepted but invited.

The board again wishes to state clearly its position regarding exemption from examination in individual cases. When candidates that hold a registered literary degree graduate subsequently

from accredited medical schools, and are then licensed by other state boards of medical examiners with standards equal to those required by the New York law, they should be permitted to practise medicine in New York state without the necessity of passing another licensing examination, provided the regents are satisfied that examination safeguards have been all sufficient.

We wish widely to circulate the information that it is not our purpose to annoy or hamper competent or skilful practitioners of medicine from other states. The intent of the law is to keep out incompetent practitioners, not to make difficult the licensing of those who are qualified.

M. J. LEWI M.D.

*Secretary board of medical examiners
representing state medical society*

**Summary of minutes of annual meeting held at the regents office,
Albany N. Y. 29 Jan. 1900**

All members present.

The following officers were elected:

President William Warren Potter M.D., Buffalo

Secretary Maurice J. Lewi M.D., New York

Question committee Maurice J. Lewi M.D. and George Ryerson Fowler M.D.

Dr Lewi read the following, which was adopted as the annual report of state board of medical examiners:

During the academic year there were five licensing examinations. These were held simultaneously at Buffalo, Syracuse, Albany and New York.

During the year 836 candidates appeared before the state medical boards and the total rejections were 165, or 19.73%.

Before the board representing the medical society of the state of New York 738 candidates appeared, of whom 138, or 18.69%, were rejected.

Before the homeopathic board 68 candidates appeared, of whom 16, or 23.52%, were rejected.

Before the eclectic board 30 candidates appeared, of whom 11 or 36.66%, were rejected.

The rejections by topics were: anatomy 49; physiology and hygiene 29; chemistry 62; surgery 39; obstetrics 55; pathology and diagnosis 86; therapeutics, practice and materia medica 51.

Since the creation of the boards 4808 candidates have been examined, of whom 1086, or 22.58% have been rejected.

Under exemptions in the medical laws, the regents have licensed during the year 138 physicians. On recommendation of state boards, 9 diplomas have been indorsed. Statistics from the advance sheets of Director Parsons's report for 1899 show results similar to those of last year in the marked superiority of graduates of New York state medical schools in the licensing tests.

In the last annual report of this board it was suggested that practical reciprocity be brought about between state boards having equal standards and that individual cases be treated on their merits. The consummation of this project will be possible only when legislation in this direction has been enacted. The statutory revision committee will soon be occupied with this subject, and to them will be submitted the views of the society as revealed in the various reports covering this and kindred topics.

It is respectfully suggested that the regents be requested to make a census of the physicians practising in the state of New York. The records of the different county clerks offices contain the data required, but careful editing will be essential, inasmuch as no requirement of the law makes it incumbent on any official to note the death or removal or change of occupation or profession of those so registered. Frequent inquiries from various sources on this question must be answered negatively at the present time; and it is a reflection on our methods to have to concede ignorance on a subject fraught with so much interest. These statistics when prepared should contain data relating to place and date of graduation, school of practice and other occupation, where existing.

During the current year but four examinations for license will be held instead of five as heretofore. This procedure represents an agreement of opinion of those interested in the subject. If experience shows that this lessening of examinations is ill-advised or hurtful to the interests of applicants for license, the earlier method will be restored.

Subdivisions of medicine as defined in the original law of 1890, still obtain, notwithstanding the effort of the board to alter this arbitrary nomenclature as indicated in the last report to this body. The matter will be agitated again in the hope of having all opposition withdrawn, whereon the simpler and more rational divisions referred to may be made.

The impetus given to higher medical education by the enactment of laws divorcing teaching and licensing powers, is not confined to New York state medical schools — the latter were never better than now — but similar institutions in other states have been forced to keep step with the march of advancing standards, and as a result the outlook is brighter and filled with more promise than ever before. More progress has been made in the past decade than in many previous generations, and New York state has been the pioneer in the onward movement.

Voted, That a salary of \$200 be paid the president of the board.

Voted, That the secretary be instructed to invite the members of the medical council to be present at the meeting of the board to be held January 30.

Recess was taken to January 30.

Minutes of joint meeting

The state board of medical examiners and medical council met at the regents office in the capitol, Albany, Jan. 30, 1900.

All members of both bodies were present, also James Russell Parsons jr, acting secretary of the University.

By invitation, Hon. Tracy Becker of Buffalo was present to confer with the board regarding suggested amendments to the medical law.

Voted, That a committee consisting of the president and secretary of the board be directed to confer with Mr Becker and the statutory revision commission touching the revision and codification of the medical laws.

A motion that a provision similar to that in the dental law be added, giving the regents power to license applicants from other states whose preliminary and professional attainments and experience were fully equivalent to the New York requirements, was lost.

The secretary read a communication from Wayne county, Mich., regarding reciprocity of licensure.

Voted, That the secretary be instructed to reply to this communication in such a way as to encourage the movement.

A recess was taken till 4 p. m. and the joint meeting adjourned without date.

At the afternoon session, at Mr Parsons's suggestion, it was

Voted, That the expense accounts submitted by the members of the board be presented in the form followed by other University officers.

Candidate no. 454 having made known his identity to the examiner in chemistry,

Voted, That this paper be referred for review to the academic examiner in chemistry.

The secretary stated that he had received a communication from the Long Island college hospital containing a suggested course of study for prospective medical students.

Voted, That a copy of this communication be sent to each member of the board.

Dr Le Fevre wished to know whether the medical syllabus was still to be considered the basis of examination.

This question provoked considerable discussion and it was

Voted, That the matter be referred to the syllabus committee.

Voted, That the regents office be advised to state in reply to inquiries that a special committee has in charge the revision of the medical syllabus, and that for the present question papers that have been issued are to be taken as a guide in preparing for licensing tests.

A recess was taken till 10.30 the following morning.

At the morning session, January 31, the secretary announced that of his appropriation of \$30 he had arranged to pay \$20 monthly for stenographer and clerk hire.

Dr Suiter offered the following resolution, which was adopted:

Whereas, The state board of medical examiners representing the medical society of the state of New York recognizes its mem-

bership in the National federation of state medical examining and licensing boards, and its obligation to pay the annual membership fee of \$10; therefore,

Resolved, That the secretary be authorized to draw a voucher for these annual dues.

M. J. LEWI M. D.

*Secretary board of medical examiners
representing state medical society*

REPRESENTING THE HOMEOPATHIC MEDICAL SOCIETY OF THE
STATE OF NEW YORK

**Summary of minutes of meeting held at the regents office, Albany
N. Y. 15 Feb. 1899**

Present — Drs Wright, Lee, Butler, Candee and, by invitation, Director Parsons.

Communications were read as follows:

From Director Parsons, under date Jan. 31, 1899, giving notice of proposition for rearrangement of topics, the same to be subject to unanimous approval of the three boards.

From Dr Wright, stating that he failed to see the necessity for a change; also discussing the proposition from a practical standpoint in relation to the medical syllabus.

From Dr Couch, specifically objecting to the proposed changes and setting forth his reasons.

Director Parsons stated that, unless there was absolute agreement on the proposition, it would be unwise to make a change. There would be one additional paper and another set of questions. Dr Lewi had canvassed the medical schools and found many criticisms as to character of the examinations. The old school board had requested from each medical school lists of 30 questions in each topic as an indication of their ideas. Some schools favored a division of the licensing examination so as to lay less stress on preliminary subjects. Dr Butler thought that nothing would be gained by a change. Chemistry might be made less important. The examination is too technical. Drs Lee and Wright concurred.

Voted, That no change in the arrangement of topics be recommended at the present time.

J. WILLIS CANDEE

Secretary board of medical examiners

representing state homeopathic society

**Summary of minutes of annual meeting held at the regents office
Albany N. Y. 13 Feb. 1900**

Present — Drs Lee, Gifford, Butler, Candee and, by invitation, Director Parsons.

At an informal discussion, prior to session of the board, the views of its members on the proposed changes in the law were requested. Dr Lee suggested a joint meeting of the three boards. Director Parsons said that would not be profitable till the law was printed for examination and criticism.

It was stated that the medical syllabus is criticized by the medical schools, as not being up to date. A question as to the syllabus committee was raised. This was composed of Drs Searle and Wetmore. Such committee being no longer active, their successors had not been appointed. It was the individually expressed sentiment of the board that the medical syllabus is not useful, the printed lists of questions being preferable.

Regarding proposed definition of what constitutes the practice of medicine, it was understood that it should be sufficiently comprehensive to include the various "pathies", bone-setters, Christian scientists, midwives, osteopathists, etc.

After discussion of medical syllabus it was

Voted, That the regents office be advised to state, in reply to inquiries as to whether or not the medical syllabus is still to be considered the basis of examinations, that, for the present, question papers that have been issued are to be taken as the only guide in preparing for examination.

Voted, That the secretary be requested to cast a ballot for the reelection of the old officers for the ensuing years. Asa S. Couch was elected president, J. Willis Candee, secretary.

Director Parsons stated that the scheme for consolidation of the medical, dental and veterinary laws seemed feasible, but the statutory revision committee appeared to be against it, and is now proceeding on the plan of three separate laws as at present.

Voted, That this board recommends that the legislative committee of the New York state homeopathic medical society confer with the legislative committee of the old school society with the view of formulating a specific definition of what constitutes the practice of medicine.

On motion meeting adjourned.

J. WILLIS CANDEE

Secretary board of medical examiners

representing state homeopathic society

Communication

Syracuse N. Y., 27 Feb. 1900

Dr Andrew R. Wright has passed from the field of earthly labor. From its organization, he has been a member of the New York state board of homeopathic medical examiners.

It is meet therefore that it should give expression to its sense of loss, both to itself and to the profession which he, for so many years, honored.

As the examiner in the department of physiology and hygiene, he discharged the duties thereby imposed with wisdom and fidelity. As an associate, his counsel was sought and highly esteemed in every emergency and, as having occupied the highest office in the gift of the school, his influence for the welfare of the board and for the important system which it represents was placed at the highest value. It will be difficult, if not impossible, adequately to fill his place.

In testimony of this and of profound sympathy with the bereaved family, the board orders this expression to be incorporated in its minutes, and that copies be forwarded to Mrs Wright, to the Buffalo press, to the secretary of the board of regents and to the *North American journal of homeopathy*.

ASA S. COUCH M. D. *President*

WILLIS B. GIFFORD M. D.

FRANK F. LAIRD M. D.

JOHN M. LEE M. D.

WILLIS MORRIS BUTLER M. D.

JAMES WILLIS CANDEE M. D. *Secretary*

REPRESENTING THE ECLECTIC MEDICAL SOCIETY OF THE STATE OF
NEW YORK

Summary of minutes of annual meeting held at the regents office.
Albany N. Y. 16 Feb. 1899

The meeting was called to order at 10.30 a. m. by Sec. Tiel.

Present — Drs Tiel, Nichols, Ensign, Denny.

The board concurred in the recommendation of the state board of medical examiners representing the medical society of the state of New York relative to a rearrangement of topics.

Officers for the ensuing year were elected as follows.

President Lee H. Smith M. D.

Secretary Arthur R. Tiel M. D.

Question committee John T. Nolan M. D. and Arthur R. Tiel M. D.

ARTHUR R. TIEL M. D.

*Secretary board of medical examiners
representing state eclectic society*

Medical students in New York state 1889-99

(Excluding graduate schools)

| NAME OF INSTITUTION | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 |
|---|-------|-------|-------|-------|-------|-------|
| College of physicians and surgeons.. | 701 | 619 | 534 | 570 | 652 | 766 |
| The univ. and Bellevue hos. med. coll. | 633 | 696 | 547 | 460 | 363 | |
| Albany medical college | 136 | 148 | 168 | 168 | 171 | 178 |
| Univ. of Buffalo, med. dep't | 189 | 282 | 203 | 153 | 163 | 190 |
| Long Island coll. hosp. | 162 | 221 | 255 | 240 | 226 | 255 |
| N. Y. homeopathic med. coll. and hosp. | 134 | 180 | 147 | 130 | 126 | 126 |
| Bellevue hosp. med. coll. | 440 | 519 | 547 | 453 | 404 | 407 |
| N. Y. med. coll. and hosp. for women. | 36 | 51 | 43 | 44 | 44 | 42 |
| Woman's med. coll. of N. Y. infirmary | 68 | 80 | 82 | 94 | 90 | 82 |
| Eclectic med. coll. | 76 | 99 | 88 | 65 | 60 | 78 |
| Syracuse univ., coll. of medicine..... | 37 | 48 | 54 | 52 | 58 | 61 |
| Niagara univ., med. dep't. | 43 | 49 | 40 | 46 | 61 | 64 |
| Cornell univ., med. coll. .... | .... | .... | .... | .... | .... | .... |
| Total for state. | 2 022 | 3 879 | 3 852 | 3 562 | 3 515 | 3 607 |
| Graduate students. .... | .... | 818 | 469 | 502 | 817 | 766 |
| Total including graduate students ... | 2 022 | 3 697 | 3 321 | 3 064 | 3 332 | 3 373 |

| NAME OF INSTITUTION | 1895 | 1896 | 1897 | 1898 | 1899 |
|--|-------|-------|-------|-------|-------|
| College of physicians and surgeons..... | 799 | 709 | 641 | 763 | 726 |
| The university and Bellevue hosp. med. coll. | 378 | 378 | 395 | 244 | 430 |
| Albany medical college | 204 | 210 | 244 | 195 | 154 |
| Univ. of Buffalo, med. dep't. | 274 | 284 | 326 | 289 | 229 |
| Long Island coll. hosp.. | 283 | 323 | 383 | 278 | 213 |
| N. Y. homeopathic med. coll. and hosp..... | 119 | 121 | 118 | 132 | 126 |
| Bellevue hosp. med. coll..... | 402 | 461 | 713 | 503 | a |
| N. Y. med. coll. and hosp. for women | 32 | 25 | 29 | 26 | 23 |
| Woman's med. coll. of N. Y. infirmary..... | 85 | 80 | 111 | 100 | 75 |
| Eclectic med. coll | 76 | 107 | 111 | 82 | 78 |
| Syracuse univ., coll. of medicine..... | 85 | 86 | 101 | 96 | 88 |
| Niagara univ., med. dep't..... | 60 | 46 | 59 | 58 | b |
| Cornell univ., med. coll ..... | ... | .... | ... | .... | 278 |
| Total for state..... | 2 797 | 2 829 | 3 231 | 2 716 | 2 420 |
| Graduate students..... | 905 | 993 | 741 | 816 | 863 |
| Total including graduate students..... | 3 702 | 3 822 | 3 972 | 3 532 | 3 283 |

a Combined with New York university.
b " " Univ. of Buffalo, med. dep't.

In 1899 there was a decrease of 296 in medical students, though the number reported exceeds that of 1889 by 398, or 19.7%. The four year requirement that took effect Jan. 1, 1898, resulted in a decrease similar to that almost invariably observed under similar conditions in other states, and the change is too recent to determine how quickly the lost ground will be recovered. The total number of medical students in the United States for 1898, as shown by *Professional education in the United States*, was 24,043, in New York state 2729. That is 11.4% of the medical students in the United States were found in New York state schools. 126 of the 156 medical schools in the United States reported total property \$15,346,030, and the 11 of New York state, \$5,645,244, or 36.8%.

Medical school summaries 1889-99

| Year | Institutions | Officers of instruction | STUDENTS | | | | | M. D. degree conferred | Prizes | Fellowships | Library, vols. | TOTAL | | |
|------|--------------|-------------------------|----------|--------------|--------------|-------|-----------------|------------------------|--------|-------------|----------------|---------------|-------------|--------------|
| | | | Graduate | M. D. course | Unclassified | Total | Holding degrees | | | | | Property | Receipts | Expenditures |
| 1889 | 12 | 6273 | 78 | 1 840 | 109 | 3 022 | ? | 691 | 38 | ? | 9 500 | d \$1 602 853 | g \$244 301 | d \$358 994 |
| 1890 | 14 | 733 | 974 | 2 629 | 94 | 3 697 | ? | 746 | 2 497 | 800 | 13 900 | 2 785 434 | 888 758 | 827 880 |
| 1891 | a 13 | ? | 521 | 2 744 | 56 | 3 821 | 393 | 790 | 1 977 | 800 | 14 355 | 2 764 580 | 897 970 | 865 406 |
| 1892 | a 13 | ? | 536 | 2 454 | 74 | 3 064 | 241 | 661 | 2 595 | 1 800 | 15 483 | e 1 586 794 | e 261 378 | e 235 766 |
| 1893 | 15 | 704 | 881 | 2 352 | 184 | 3 367 | 1 802 | 626 | 2 481 | 1 500 | 13 843 | f 3 463 280 | f 841 540 | f 689 419 |
| 1894 | 15 | 838 | 803 | 2 502 | 115 | 3 420 | 1 393 | 559 | 2 503 | 1 500 | 16 744 | f 3 876 794 | f 550 502 | f 483 595 |
| 1895 | 15 | 818 | 939 | 2 704 | 113 | 3 756 | 1 466 | 683 | 2 565 | 1 500 | 17 226 | f 4 106 294 | f 460 044 | f 697 653 |
| 1896 | 15 | 965 | 997 | 2 724 | 154 | 3 875 | 1 593 | 693 | 3 348 | 1 500 | 21 072 | f 4 563 886 | f 519 147 | f 744 012 |
| 1897 | 15 | 968 | 746 | 2 990 | 289 | 4 025 | 1 315 | 569 | 2 357 | 1 500 | 21 967 | f 4 784 270 | 494 945 | 815 681 |
| 1898 | 15 | 1 006 | 825 | 2 567 | 190 | 3 582 | 1 394 | 670 | ? | ? | 24 276 | f 4 363 583 | 469 981 | 480 893 |
| 1899 | 14 | 1 025 | 864 | 2 363 | 108 | 3 335 | 1 435 | 637 | ? | ? | 25 189 | f 5 671 759 | 436 795 | 482 067 |

a Not including New York polyclinic, which did not report. b Not including universities of New York and Syracuse. c Not including students of University of the City of New York. d Not including five which did not report. e Not including College of physicians and surgeons. f Not including Syrian protestant college. g Not including four which did not report.

This table shows a growth in 10 years of 2, or 17% in institutions; in eight years of 1047, or 265% in students holding degrees, an annual average increase of 33.6%; in 10 years of \$4,068,906, or 254% in total property, an annual average increase of 25.4%; of \$192,494, or 78.8% in total receipts, an annual average increase of 8.6%; of \$73,093, or 20.3% in total expenditures, an annual average increase of 2%. The medical schools of Buffalo, New York and Syracuse universities, New York homeopathic, and Woman's medical were not included in total property reported in 1889; New York university, Niagara, Syracuse and Long Island hospital were omitted from total receipts; Buffalo, New York university, Niagara, Syracuse and New York medical were omitted from total expenditures. Adding to the 1889 figures the first reported by the omitted institutions, the growth in property is \$2,363,731, or 140%, an annual average increase of 14%; in receipts of \$325,068, or 34%, an annual average increase of 3.4%; the decrease in expenditures \$15,080, or 3.4%, an annual average decrease of .3%.

The 1461 degrees held by medical students in 1899 were classified as follows: B.A. 336; B. S. 88; Ph.B. 31; C.E. 1; LL.B. 1; M.D. 899, of which 862 were held by students in the graduate schools; other degrees 105.

Medical examinations

Medical license. Examinations for license to practise medicine in this state have been or are to be held as follows.

| Dates | |
|-----------------|-----------------|
| 1899 | 1900 |
| January 24-27 | January 23-26 |
| April 4-7 | May 22-25 |
| May 16-19 | June 19-22 |
| June 13-16 | September 25-28 |
| September 26-29 | |

Places

New York, Albany, Syracuse, Buffalo. Each candidate is notified as to exact place.

Daily program

| | 9.15 a. m. | 1.15 p. m. |
|------------------|--------------|-------------------------|
| <i>Tuesday</i> | Anatomy | Physiology and hygiene |
| <i>Wednesday</i> | Chemistry | Surgery |
| <i>Thursday</i> | Obstetrics | Pathology and diagnosis |
| <i>Friday</i> | Therapeutics | |

An analysis of the results of the licensing examinations since Sep. 1, 1891, shows:

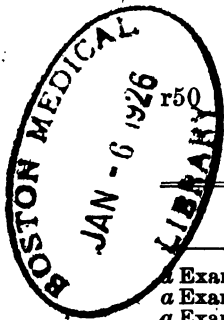
That 8.9% of the old school candidates were rejected in 1892, 7.4% in 1893, 20.2% in 1894, 26.5% in 1895, 27.7% in 1896, 24.8% in 1897, 24.9% in 1898, and 18.6% in 1899.

That 25% of the homeopathic candidates were rejected in 1892, 9.5% in 1893, 13.7% in 1894, 13.3% in 1895, 19.6% in 1896, 17.7% in 1897, 27.7% in 1898, and 23.5% in 1899.

That 50% of the eclectic candidates were rejected in 1892, 28.5% in 1893, 50% in 1894, 9.09% in 1895, 5.5% in 1896, 23% in 1897, 20.8% in 1898, and 36.6% in 1899.

During the eight years 56, 267, 390, 606, 714, 772, 809 and 738 old school candidates have been examined, 8, 21, 51, 60, 56, 45, 36 and 68 homeopaths, and 4, 7, 4, 11, 18, 13, 24 and 30 eclectics, making a total of 4808, of which number 1086, or 22.5% were rejected.

In these statistics each candidate who fails is counted as often as examined though the failure is not charged more than once against the medical school unless the examinations are taken in different years.



UNIVERSITY OF THE STATE OF NEW YORK

Per cent licensed

| | 1898 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 |
|---|------|------|------|------|------|------|------|
| Examined on graduation..... | 91.8 | 91 | 90 | 87.3 | 87.3 | 89.2 | 94.1 |
| ^a Examined after one year's practice | 93.8 | 90 | 82 | 76.8 | 87.4 | 86.6 | 89.1 |
| ^a Examined after two years' practice | 88.4 | 87 | 85 | 92 | 78.5 | 78.5 | 82.6 |
| ^a Examined after from 3 to 29 years' practice..... | 89.2 | 77 | 87 | 74.1 | 75.5 | 79 | 76.2 |

^a Each candidate who fails is counted only once.

In 1899 those examined after one year's practice maintained about the same relation to those examined on graduation that prevailed in 1898, though both were relatively higher.

Of those examined after two years' practice 82.6% were successful, 4.1% better than last year, while of those that had had more experience 76.2% were successful, as compared with 79% in 1898.

^a Results of medical licensing examinations

New York schools for year ending 31 July 1899

| NAME OF MEDICAL SCHOOL | Number of candidates | Number rejected | Honor | Per cent accepted |
|--|----------------------|-----------------|-------|-------------------|
| Albany medical college | 71 | 11 | 5 | 84.5 |
| Bellevue hospital medical college..... | 40 | 1 | 2 | 97.5 |
| College of physicians and surgeons.... | 118 | 3 | 20 | 97.4 |
| Cornell university, medical department | 25 | 1 | 4 | 96 |
| Long Island college hospital..... | 77 | 8 | 3 | 89.6 |
| ^b New York eclectic medical college.... | 18 | 2 | ... | 88.8 |
| ^c New York homeo. med. coll. and hosp. | 31 | ... | 13 | 100 |
| ^c N. Y. med. coll. and hosp. for women. | 5 | 2 | ... | 60 |
| New York university, medical dep't... | 41 | 5 | 1 | 87.8 |
| Niagara university, medical dep't..... | 1 | ... | ... | 100 |
| Syracuse university, medical dep't.... | 10 | 1 | ... | 90 |
| University and Bellevue hosp. med. coll. | 61 | 3 | 7 | 95 |
| University of Buffalo, medical dep't.. | 43 | 5 | 2 | 88.3 |
| Woman's med. coll. of N. Y. infirmary | 14 | 2 | 1 | 85.7 |

^a This and the following table would be more significant if all answer papers were rated by the same board. ^b Eclectic. ^c Homeopathic.

New York schools 1891-99

| NAME OF MEDICAL SCHOOL | Number of candidates | Number rejected | Honor | Per cent accepted |
|--|----------------------|-----------------|-------|-------------------|
| Albany medical college | 337 | 59 | 18 | 82.4 |
| Bellevue hospital medical college..... | 340 | 37 | 14 | 89.1 |
| College of physicians and surgeons.... | 695 | 34 | 92 | 95.1 |
| Cornell university, medical department | 25 | 1 | 4 | 96 |
| Long Island college hospital..... | 345 | 58 | 8 | 83.1 |
| ^a New York eclectic medical college.... | 79 | 10 | 5 | 87.3 |
| ^b New York homeo. med. coll. and hosp. | 158 | 12 | 39 | 92.4 |
| ^b N. Y. med. coll. and hosp. for women | 43 | 4 | 5 | 90.6 |
| New York university, medical dep't... | 467 | 72 | 22 | 84.5 |
| Niagara university, medical dep't..... | 61 | 9 | ... | 85.2 |
| Syracuse university, medical dep't.... | 109 | 8 | 6 | 92.6 |
| University and Bellevue hosp. med. coll. | 61 | 3 | 7 | 95 |
| University of Buffalo, medical dep't... | 321 | 36 | 7 | 88.7 |
| Woman's med. coll. of N. Y. infirmary | 87 | 6 | 8 | 93.1 |

^a Eclectic. ^b Homeopathic.

Rejections by topics

| | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 |
|---|------|------|------|------|------|------|
| Physiology and hygiene | 12 | 16 | 31 | 58 | 41 | 29 |
| Anatomy | 12 | 48 | 70 | 70 | 55 | 49 |
| Therapeutics, practice and materia medica | 15 | 59 | 70 | 88 | 78 | 51 |
| Surgery | 17 | 36 | 60 | 56 | 54 | 39 |
| Chemistry | 18 | 62 | 75 | 73 | 67 | 62 |
| Pathology and diagnosis | 33 | 65 | 81 | 88 | 58 | 86 |
| Obstetrics..... | 44 | 67 | 57 | 58 | 62 | 25 |

In 1899 there was a decrease in the number of rejections in all topics except pathology and diagnosis, where the increase was 28.

New York medical schools compared with those in other states and countries

The following table shows for 1899 the rejections by topics: group 1, New York schools; group 2, schools in other states; group 3, schools in foreign countries. Each applicant is counted

only once in the number of candidates, but under the several topics each failure is indicated, excluding any answer papers not examined.

It speaks very well for New York schools that of the papers submitted by 554 graduates only 198, an average nearly of 1 paper for every 3 graduates, were rejected, while 98, or an average of more than 1 for every graduate, of those submitted by 86 graduates of schools in other states, and 45 of those submitted by 17 graduates, or more than 2 for every candidate, of schools in foreign countries, were rejected. In addition to these candidates from schools in which there was at least one failure, 1 graduate of a New York school and 89 graduates of schools in other states and countries were examined. These results are similar to those reported in previous years.

New York schools

| NAME OF MEDICAL SCHOOL | No. of candidates | Anatomy | Physiology and hygiene | Chemistry | Surgery | Obstetrics | Pathology and diagnosis | Therapeutics, practice and materia medica | Total |
|------------------------------------|-------------------|---------|------------------------|-----------|---------|------------|-------------------------|---|-------|
| Albany medical college..... | 71 | 9 | 5 | 10 | 3 | 5 | 14 | 15 | 61 |
| Bellevue hosp. med. college..... | 40 | 1 | 1 | 2 | 2 | .... | 2 | 4 | 13 |
| Coll. of physicians and surgeons. | 118 | 2 | 2 | 2 | .... | .... | 5 | 2 | 18 |
| Cornell university..... | 25 | .... | .... | 1 | .... | .... | 1 | .... | 2 |
| Long Island college hospital..... | 77 | 11 | 7 | 12 | 6 | 3 | 15 | 9 | 63 |
| N. Y. eclectic medical college... | 18 | .... | .... | 2 | 1 | .... | .... | .... | 3 |
| N. Y. homeo. med. coll. and hosp. | 31 | .... | .... | 5 | .... | .... | .... | .... | 5 |
| N. Y. med. col. and hosp. for wom. | 5 | .... | .... | 1 | .... | .... | .... | .... | 1 |
| Syracuse university..... | 10 | .... | .... | .... | .... | .... | 1 | .... | 1 |
| University of Buffalo..... | 43 | 3 | 1 | 1 | 3 | 1 | 3 | 3 | 15 |
| N. Y. university medical dep't... | 41 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 18 |
| Univ. and Bellevue hos. med. col. | 61 | 2 | .... | .... | .... | .... | 2 | .... | 4 |
| Wom's med. coll. of N. Y. infir. | 14 | .... | .... | 1 | 1 | .... | 2 | 1 | 5 |
| Total..... | 554 | 30 | 17 | 39 | 18 | 11 | 47 | 36 | 198 |

Schools in other states

| NAME OF MEDICAL SCHOOL | Number of candidates | Anatomy | Physiology and hygiene | Chemistry | Surgery | Obstetrics | Pathology and diagnosis | Therapeutics | Total |
|-------------------------------------|----------------------|---------|------------------------|-----------|---------|------------|-------------------------|--------------|-------|
| Hahnem'n hos. col. San Fran., Cal. | 1 | ... | ... | 1 | ... | ... | ... | ... | 1 |
| Howard university, D. C. | 1 | ... | ... | ... | ... | ... | 1 | ... | 1 |
| Ga. coll. of ec. med. and surgery | 1 | ... | ... | 1 | ... | ... | ... | ... | 1 |
| Chicago hom. med. coll. | 4 | 1 | ... | 2 | ... | 1 | 1 | ... | 5 |
| Coll. phys. and surgeons, Chicago | 3 | ... | ... | ... | 2 | 2 | 3 | ... | 7 |
| Hering med. coll. Chicago | 2 | ... | ... | 1 | ... | ... | ... | ... | 1 |
| Illinois med. coll. | 1 | ... | ... | ... | 1 | ... | ... | ... | 1 |
| Coll. phys. and surg. Keokuk, Ia. | 1 | 1 | 1 | ... | 1 | 1 | 1 | ... | 5 |
| Kentucky school of medicine | 1 | 1 | ... | ... | 1 | ... | 1 | ... | 3 |
| Bowdoin med. coll. | 2 | ... | ... | ... | ... | ... | 1 | ... | 1 |
| Baltimore medical college | 9 | 3 | ... | ... | 1 | ... | 1 | 1 | 6 |
| Balt. univ. school of medicine | 13 | ... | 1 | 1 | 5 | 1 | 8 | 5 | 21 |
| Coll. phys. and surg. Baltimore | 4 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 8 |
| Tufts med. coll. Boston | 3 | ... | ... | 2 | 1 | ... | 1 | ... | 4 |
| Univ. of Michigan | 10 | ... | ... | ... | ... | 1 | ... | ... | 1 |
| Beaumont hosp. med. coll. St Louis | 1 | ... | ... | 1 | ... | ... | ... | ... | 1 |
| Dartmouth medical college | 2 | 1 | ... | ... | ... | ... | ... | ... | 1 |
| Cleveland hom. med. coll. | 2 | ... | 1 | ... | 1 | 1 | 1 | ... | 4 |
| Columbus med. coll. | 1 | ... | ... | ... | ... | ... | ... | 1 | 1 |
| Starling med. coll. | 1 | 1 | ... | ... | ... | ... | ... | ... | 1 |
| Hahn'n med. coll. & hosp. Phil., Pa | 9 | 1 | 1 | 3 | ... | ... | 1 | ... | 6 |
| Jefferson med. coll. | 2 | 2 | ... | 1 | ... | ... | 2 | ... | 5 |
| Medico-chirurg. coll. Phil., Pa. | 2 | ... | 1 | 1 | 1 | ... | 2 | 1 | 6 |
| Memphis hosp. medical coll. | 1 | 1 | ... | ... | ... | ... | 1 | ... | 2 |
| Univ. of Vermont. | 9 | 1 | ... | 1 | ... | ... | 1 | 2 | 5 |
| Total | 86 | 14 | 6 | 16 | 15 | 8 | 28 | 11 | 98 |

Schools in foreign countries

| NAME OF MEDICAL SCHOOL | Number of candidates | Anatomy | Physiology and hygiene | Chemistry | Surgery | Obstetrics | Pathology and diagnosis | Therapeutics | Total |
|------------------------------------|----------------------|---------|------------------------|-----------|---------|------------|-------------------------|--------------|-------|
| Trinity medical coll., Toronto Ca. | 3 | ... | ... | ... | 1 | ... | ... | ... | 1 |
| Univ. of Bologna | 1 | 1 | ... | 1 | ... | 1 | 1 | ... | 4 |
| Univ. of Naples, Italy | 8 | 4 | 5 | 4 | 5 | 4 | 5 | 3 | 30 |
| Univ. of Palermo, Italy | 1 | ... | 1 | ... | ... | 1 | 3 | 1 | 6 |
| Univ. of Rome | 2 | ... | ... | 2 | ... | ... | ... | ... | 2 |
| Univ. of Bucharest | 1 | ... | ... | ... | ... | ... | 1 | ... | 1 |
| Univ. of Jounieff, Russia | 1 | ... | ... | ... | ... | ... | 1 | ... | 1 |
| Total | 17 | 5 | 6 | 7 | 6 | 6 | 11 | 4 | 45 |

Average number of trials 1891-99

New York schools. The following table shows the average number of trials to each New York school candidate. It also gives the number of candidates and the number of trials for each year and the per cent still rejected. By this table candidates appearing in different years are counted only once.

| NAME OF MEDICAL SCHOOL | Year | Candidates | Trials | Total number of candidates | Total trials | No. still rejected | Average no. trials to each candidate | Per cent still rejected |
|---|------|------------|--------|----------------------------|--------------|--------------------|--------------------------------------|-------------------------|
| Albany medical college | 91-2 | 1 | 1 | | | | | |
| | 92-3 | 34 | 35 | | | | | |
| | 93-4 | 33 | 46 | | | | | |
| | 94-5 | 33 | 48 | | | | | |
| | 95-6 | 37 | 40 | | | | | |
| | 96-7 | 52 | 66 | | | | | |
| | 97-8 | 44 | 79 | | | | | |
| | 98-9 | 56 | 84 | 292 | 399 | 16 | 1.87 | 5.48 |
| | 91-2 | 2 | 2 | | | | | |
| | 92-3 | 23 | 31 | | | | | |
| Bellevue hospital medical coll..... | 93-4 | 43 | 60 | | | | | |
| | 94-5 | 33 | 43 | | | | | |
| | 95-6 | 42 | 46 | | | | | |
| | 96-7 | 52 | 62 | | | | | |
| | 97-8 | 81 | 112 | | | | | |
| | 98-9 | 33 | 45 | 306 | 401 | 4 | 1.30 | 1.29 |
| | 91-2 | 1 | 1 | | | | | |
| | 92-3 | 35 | 38 | | | | | |
| | 93-4 | 45 | 46 | | | | | |
| | 94-5 | 119 | 132 | | | | | |
| College of physicians and surgeons Cornell university..... | 95-6 | 184 | 141 | | | | | |
| | 96-7 | 109 | 125 | | | | | |
| | 97-8 | 107 | 132 | | | | | |
| | 98-9 | 116 | 121 | 666 | 736 | 5 | 1.11 | .75 |
| | 98-9 | 25 | 25 | 25 | 25 | 1 | 1. | 4. |
| | 91-2 | ..... | ..... |  |  |  |  |  |
| | 92-3 | 3 | 5 | | | | | |
| | 93-4 | 3 | 5 | | | | | |
| | 94-5 | 7 | 7 | | | | | |
| | 95-6 | 20 | 21 | | | | | |
| Eclectic medical college..... | 96-7 | 7 | 13 | | | | | |
| | 97-8 | 16 | 19 | | | | | |
| | 98-9 | 17 | 20 | 73 | 90 | 4 | 1.23 | 5.48 |
| | 91-2 | 1 | 1 | | | | | |
| | 92-3 | 20 | 22 | | | | | |
| | 93-4 | 19 | 21 | | | | | |
| | 94-5 | 36 | 49 | | | | | |
| | 95-6 | 57 | 70 | | | | | |
| | 96-7 | 54 | 78 | | | | | |
| | 97-8 | 51 | 1 | | | | | |
| Long Island college hospital | 98-9 | 61 | 94 | 299 | 436 | 13 | 1.46 | 4.35 |
| | 91-2 | 1 | 1 | | | | | |
| | 92-3 | 8 | 10 | | | | | |
| | 93-4 | 25 | 27 | | | | | |
| | 94-5 | 33 | 37 | | | | | |
| | 95-6 | 24 | 26 | | | | | |
| | 96-7 | 14 | 20 | | | | | |
| | 97-8 | 12 | 14 | | | | | |
| | 98-9 | 29 | 36 | 146 | 171 | 0 | 1.17 | ..... |
| | 91-2 | 1 | 1 | | | | | |
| New York homeopathic med. coll... | 92-3 | 1 | 1 | | | | | |
| | 93-4 | 12 | 14 | | | | | |
| | 94-5 | 9 | 11 | | | | | |
| | 95-6 | 5 | 5 | | | | | |
| | 96-7 | 5 | 5 | | | | | |
| | 97-8 | 3 | 3 | | | | | |
| | 98-9 | 5 | 8 | 41 | 45 | 2 | 1.10 | 4.88 |
| | 91-2 | 1 | 1 | | | | | |
| | 92-3 | 1 | 1 | | | | | |
| | 93-4 | 12 | 14 | | | | | |
| N. Y. med. coll. and hosp. for women | 94-5 | 9 | 11 | | | | | |
| | 95-6 | 5 | 5 | | | | | |
| | 96-7 | 5 | 5 | | | | | |
| | 97-8 | 3 | 3 | | | | | |
| | 98-9 | 5 | 8 | 41 | 45 | 2 | 1.10 | 4.88 |
| | 91-2 | 1 | 1 | | | | | |
| | 92-3 | 1 | 1 | | | | | |
| | 93-4 | 12 | 14 | | | | | |
| | 94-5 | 9 | 11 | | | | | |
| | 95-6 | 5 | 5 | | | | | |

| NAME OF MEDICAL SCHOOL | Year | Candidates | Trials | Total number of candidates | Total trials | No. still rejected | Average no. trials to each candidate | Per cent still rejected |
|--|------|------------|--------|----------------------------|--------------|--------------------|--------------------------------------|-------------------------|
| New York univ., med. department.. | 91-2 | 2 | 3 | 415 | 526 | 20 | 1.27 | 4.81 |
| | 92-3 | 39 | 43 | | | | | |
| | 93-4 | 44 | 58 | | | | | |
| | 94-5 | 64 | 92 | | | | | |
| | 95-6 | 65 | 71 | | | | | |
| | 96-7 | 85 | 105 | | | | | |
| | 97-8 | 86 | 112 | | | | | |
| | 98-9 | 29 | 43 | | | | | |
| | 91-2 | ... | ... | | | | | |
| | 92-3 | 3 | 5 | | | | | |
| Niagara univ., med. department.... | 93-4 | 13 | 14 | 54 | 63 | 2 | 1.16 | 3.70 |
| | 94-5 | 8 | 10 | | | | | |
| | 95-6 | 12 | 13 | | | | | |
| | 96-7 | 11 | 13 | | | | | |
| | 97-8 | 6 | 7 | | | | | |
| | 98-9 | 1 | 1 | | | | | |
| | 91-2 | ... | ... | | | | | |
| | 92-3 | 6 | 6 | | | | | |
| | 93-4 | 10 | 15 | | | | | |
| | 94-5 | 8 | 8 | | | | | |
| Syracuse univ., med. department.. Univ. and Bellevue hosp. med. coll. | 95-6 | 24 | 24 | 102 | 114 | 1 | 1.12 | .98 |
| | 96-7 | 23 | 25 | | | | | |
| | 97-8 | 24 | 26 | | | | | |
| | 98-9 | 7 | 10 | | | | | |
| | 98-9 | 61 | 61 | | | | | |
| | 91-2 | 2 | 2 | | | | | |
| | 92-3 | 21 | 24 | | | | | |
| | 93-4 | 14 | 23 | | | | | |
| | 94-5 | 51 | 62 | | | | | |
| | 95-6 | 51 | 60 | | | | | |
| Univ. of Buffalo, med. department.. | 96-7 | 60 | 73 | 294 | 392 | 9 | 1.33 | 3.06 |
| | 97-8 | 56 | 104 | | | | | |
| | 98-9 | 39 | 44 | | | | | |
| | 91-2 | ... | ... | | | | | |
| | 92-3 | 8 | 8 | | | | | |
| | 93-4 | 8 | 8 | | | | | |
| | 94-5 | 19 | 21 | | | | | |
| | 95-6 | 7 | 7 | | | | | |
| | 96-7 | 15 | 16 | | | | | |
| | 97-8 | 15 | 15 | | | | | |
| Woman's med. coll. of N. Y. infirm'y | 98-9 | 12 | 14 | 84 | 89 | 3 | 1.06 | 3.57 |

Dentistry

Action by the regents

Dental licenses from other states. 21 Dec. 1899. In 1898 the New York dental law was amended so that the regents may now issue their license to any applicant who holds a license to practise dentistry granted by a state board of dental examiners, indorsed by the dental society of the state of New York, provided that his preliminary and professional education meets the New York statutory requirements. The dental examinations of New Jersey and Pennsylvania having been indorsed by the New York state dental society as more nearly approximating the New York standard than those of any other state boards, the New York state

dental examiners, at a meeting held Oct. 7, 1899, recommended to the regents the indorsement of New Jersey and Pennsylvania licenses granted under the new régime, provided the preliminary and professional education of applicants meets in each individual case the New York statutory requirements.

The New Jersey statute demands "a preliminary education equal to that furnished by the common schools." The secretary of the New Jersey dental commission writes Oct. 17, 1899, that this has been construed to mean graduation from a registered four year high school course. "We have, however, agreed to require only a three year high school course up to Jan. 1, 1901, when the full requirement shall take effect simultaneously with New York. This agreement is made with the full knowledge and approval of the governor and the superintendent of public instruction and you may rest assured that New Jersey will live up to the spirit as well as the letter of the agreement . . . We look on the interchange of licenses with New York as the greatest educational advance that has yet been made in the dental profession, the formation of a nucleus around which all other states must rally."

The Pennsylvania dental council has agreed to exact of all candidates for admission to the Pennsylvania state licensing examinations the following qualifications: For matriculates in registered dental schools after Oct. 1, 1899, one year of high school work. For matriculates in registered dental schools after Oct. 1, 1900, two years of high school work. For matriculates after Oct. 1, 1901, three years of high school work. For matriculates after Oct. 1, 1902, four years of high school work.

Voted, That New Jersey licenses to practise dentistry be indorsed, provided that in each individual case the preliminary and professional education of applicants meets the New York statutory requirements.

Voted, That the recommendation to indorse Pennsylvania licenses to practise dentistry be deferred till more definite action has been taken toward establishing a satisfactory preliminary general education requirement for dental degrees in the Pennsylvania dental schools.

Dental standards. 21 Dec. 1899. The state board of dental examiners at a meeting held Oct. 7, 1899, adopted these resolutions on the recommendations of the dental council:

1 That the dental examiners approve the action of the regents in extending to 1901 the 36 count requirement for a dental student certificate.

2 That after Jan. 1, 1901, no dental school out of the state be registered that confers on any student the D.D.S. degree on less than three full courses of dental lectures.

3 That the dental examiners disapprove the plan to establish two standards for graduation.

The resolutions of the dental council may be summarized briefly as follows:

1 That the preliminary general education required of dental students remain at 36 counts, or three years' high school work.

The regents met the demand in June 1899, by extending the present modified requirements to include matriculates up to Jan. 1, 1901. The dental council asked a farther extension.

2 That no dental school out of the state be registered that graduates on lower standards than those required by law in New York.

The dental council stated that New York schools were placed at a disadvantage, in that schools out of the state admitted students to advanced standing on terms prohibited by the New York law.

3 That in the acceptance of equivalents, individual studies completed at registered schools be accepted.

This is the present method of procedure.

4 That the general preliminary education required for licenses remain at 36 counts, but that New York dental schools be permitted to confer a degree on the standard adopted by the National association of dental faculties.

The regents are on record as strenuously opposed to lowering the standard for degrees, and the dental examiners are unanimous in holding the same opinion.

5 That the dental council obtain an opinion from New York dental faculties as to a special three year preparatory course for admission to dental study.

Such an opinion would be gladly considered.

6 That after the adoption of the three year dental preparatory course a special dental student certificate be added to the list of credentials offered by the regents.

If the dental faculties agree on a special preparatory course and it is approved by the regents, such a credential will of course be offered.

7 That all applicants for license under the five year exemption clause meet the preliminary general education required for dental degrees in New York.

This has always been the method of procedure and no one has suggested that it be changed. Furthermore, the state dental examiners now interpret the exemption as applying only to unusually competent dentists of other states who fully meet the New York statutory requirements.

8 That the preliminary education of each licensee be published in the annual report of the college department.

This will be done hereafter, not publishing list of courses completed, but giving in each case the rating by year of high school work or academic counts.

9 That the dental law be revised.

It is the prevalent opinion that the dental law should not be amended except on approval of the state dental society. Amendments approved by the dental council, the state board of dental examiners and the state dental society would probably meet the approval also of the regents.

Voted, That the action of the dental examiners and the conclusions relative to the petition of the dental council, submitted to the committee of the college department, be approved and spread on the minutes.

N. Y. dental school. 21 Dec. 1899. *Voted*, That the secretary be instructed to ask the trustees of the New York dental school to report to the next meeting of the regents, whether they had met the conditions of their provisional charter, the term of which has now expired.

Dental examiners. At the annual meeting of the state dental society held in Albany, May 10, 1899 the following were nominated to the regents for appointment on the state dental board.

Fourth district. Drs Oscar J. Gross of Schenectady and Andrew Young of Johnstown.

Seventh district. Drs Frank French of Rochester and J. W. Cowan of Geneseo.

Appointments. In June 1899 the regents appointed Dr Frank French his own successor from the seventh district and Dr Oscar J. Gross from the fourth district to succeed Dr W. H. Colgrove, who was not renominated.

Report of secretary of the University

Dental receipts and disbursements. July 24, the secretary sent to the eight state dental examiners the following statement of receipts and expenditures connected with the administration of the dental laws from Aug. 1, 1898, to July 31, 1899:

To the state board of dental examiners

As the executive financial officer of the University, I transmit herewith a summary of the records and vouchers in this office (all of which are open to your inspection) of the receipts and expenditures connected with the dental examinations provided for by laws of 1893, ch. 661, as amended in 1895 and 1896, but not including the dental student examinations, the expenses of which are borne by the department.

From Aug. 1, 1898, to July 31, 1899, there were five examinations for license to practise dentistry, at which 222 candidates appeared before the board. In accordance with law the regents have paid the expenses properly chargeable to this examination,

and have on hand at the end of the academic year \$382.25, which according to law is to be paid to the dental society of the state of New York.

MELVIL DEWEY
Secretary of the University

Receipts

| | | |
|-------------------------------|---------|---------|
| 195 \$25 fees | \$4 875 | |
| 1 returned \$25 fee | 25 | |
| | | <hr/> |
| | | \$4 850 |

Payments

| | | |
|---|----------|----------|
| Printing | \$286 28 | |
| Local expenses of conducting examinations at various points throughout the state | 353 47 | |
| Expenses of examiners, including those of the committee appointed to inspect the dental schools | 2 143 | |
| Services of examiners and clerks in Albany | 1 675 | |
| Polk dental register | 10 | |
| | | <hr/> |
| | | 4 467 75 |
| | | <hr/> |
| | | \$382 25 |

State board of dental examiners

Summary of minutes of special meeting held at the regents office,
Albany N. Y. 10 May 1899

The meeting was called to order at 9.15 a. m. by Pres. Palmer. All members of the board were present, also Director Parsons of the regents office.

The report of the committee appointed to inspect the dental department of the University of Buffalo was read and accepted, also the report of the committee appointed to inspect the New York dental school and the New York college of dentistry.

Regarding an interchange of licenses, Dr Jarvie stated that he had had an interview with the New Jersey board and that an arrangement had been made whereby he and Dr Carr were to attend one of their examinations, that held March 23. Dr Carr being unable to go, Dr Jarvie attended the examination and was

favorably impressed both as regards the standard required and the method of conducting the examinations.

Voted, That the state board of dental examiners request that the dental society of the state of New York recommend the indorsement of the standards established by Pennsylvania and New Jersey.

Voted, That the report of the committee be accepted and that the committee be continued and make a farther report at the October meeting.

Voted, That as soon as practicable an examination in mechanical dentistry be added.

Adjourned at 10.15 a. m.

FRANK FRENCH

Secretary state board of dental examiners

Summary of minutes of special and joint meeting held at the regents office Albany N. Y. 7 Oct. 1899

The meeting was called to order by Pres. Palmer. All members of the board were present, also Drs Weisse and Barrett, representing the dental council, and Director Parsons.

Dr Weisse presented the following resolutions from the dental council, which had been referred by the regents June 26, 1899, to the state dental examiners:

1 That the preliminary general education required of dental students remain at 36 counts, or three years' high school work.

The regents met the demand in June 1899, by extending the present modified requirements to include matriculates up to Jan. 1, 1901. The dental council asked a farther extension.

2 That no dental school out of the state be registered that graduates on lower standards than those required by law in New York.

The dental council stated that New York schools were placed at a disadvantage in that schools out of the state admitted to advanced standing on terms prohibited by the New York law.

3 That in the acceptance of equivalents individual studies completed at registered schools be accepted.

This is the present method of procedure.

4 That the general preliminary education required for licenses remain at 36 counts, but that New York dental schools be permitted to confer a degree on the standard adopted by the National association of dental faculties.

Mr Parsons stated that the regents were on record as strenuously opposed to lowering the standard for degrees, and the dental examiners are unanimous in holding the same opinion.

5 That the dental council obtain an opinion from New York dental faculties as to a special three year preparatory course for admission to dental study.

The determination of the statutory preliminary requirements is in the hands of the regents. The college department would be glad to secure such assistance from the dental council.

6 That after the adoption of the three year dental preparatory course a special dental student certificate be added to the list of credentials offered by the regents.

If the dental faculties agree on a special preparatory course and it is approved by the regents, such a credential will of course be offered.

7 That all applicants for license under the five year exemption clause meet the preliminary general education required for dental degrees in New York.

This has always been the method of procedure and no one has suggested that it be changed. Furthermore, the state dental examiners now interpret the exemption as applying only to unusually competent dentists of other states who fully meet the New York statutory requirements.

8 That the preliminary education of each licensee be published in the annual report of the college department.

This will be done hereafter, not publishing lists of courses completed, but giving in each case the rating by year of high school work or academic counts.

9 That the dental law be revised.

It is the prevalent opinion that the dental law should not be amended except on approval of the state dental society. Amend-

ments approved by the dental council, the state board of dental examiners and the state dental society would probably meet with the approval also of the regents.

AFTERNOON SESSION

The meeting was called to order at 3.10 p. m. by Pres. Palmer, all members of the board being present, also Director Parsons.

The minutes of the previous meeting were read and accepted.

Dr French presented his report as secretary.

Mr Parsons stated that he had received from the president and treasurer of the state dental society letters criticizing the administration of the dental laws, particularly in the matter of expenses.

At Director Parsons's request it was

Voted, That the president and secretary of the board of examiners (Drs Palmer and French) be appointed a committee to examine the vouchers submitted in connection with the expenses of administering the dental law.

After some discussion it was

Voted, That, beginning with September 1900, a practical examination in prosthetic dentistry be added, to be held on Saturday morning of examination week.

Voted, That Drs Carr and Jarvie be appointed a committee to formulate rules to govern this examination.

This committee reports as follows:

Each candidate must bring a full swedged plate of pure silver, with single gum teeth, ground, articulated, backed and invested ready for soldering. The candidate will be required to solder and finish the plate in the presence of the examiners, and the set of teeth so soldered and finished must be deposited with the secretary of the dental board. Each candidate must submit an affidavit sworn to before a notary public to the effect that the plate was swedged, teeth ground and backed without the aid of others.

Regarding the resolutions presented by the dental council, the following recommendations were adopted:

- 1 That the board approves the action of the regents in extending to 1901 the 36 count requirement for a dental student certificate.

2 That after Jan. 1, 1901, no dental school out of the state be registered that confers on any student the D.D.S. degree on less than three full courses of dental lectures.

3 That the board disapproves the plan to establish two standards for graduation.

Dr Jarvie presented the report of the committee appointed to confer with the examining boards of Pennsylvania and New Jersey.

Voted, That licenses granted by the state dental examiners of Pennsylvania and New Jersey be indorsed on payment of a fee of \$25, provided that in each individual case the preliminary and professional education are not less than is required in this state and provided that the preliminary and professional requirements for admission to licensing examinations be not lower than those fixed by the New York law.

The following officers were elected for the ensuing year:

President Dr Palmer

Secretary Dr French

Editor Dr Carr

FRANK FRENCH

Secretary state board of dental examiners

Dental students in New York state 1889-99

| NAME | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 |
|---|-------|-------|-------|-------|-------|------|
| New York college of dentistry | 248 | 327 | 283 | 288 | 286 | 298 |
| New York dental school ..... | ..... | ..... | ..... | ..... | ..... | 27 |
| University of Buffalo, coll. of dentistry | ..... | ..... | ..... | ..... | 42 | 88 |
| | 248 | 327 | 283 | 288 | 328 | 413 |

| NAME | 1895 | 1896 | 1897 | 1898 | 1899 |
|--|------|------|------|------|------|
| New York college of dentistry | 364 | 337 | 244 | 216 | 256 |
| New York dental school | 12 | 15 | 45 | 48 | 43 |
| University of Buffalo, coll. of dentistry | 129 | 173 | 222 | 174 | 200 |
| | 505 | 525 | 511 | 438 | 498 |

This table shows a growth in dental students of 60, or 13.7% for the year 1899, and there was a growth of 250, or 100.8% for the decade, an annual average increase of 10%.

It is interesting to note that the dental schools already give evidence of recovering the growth lost by the higher standards required.

The total number of dental students in the United States for 1898 as shown by *Professional education in the United States* was 7221, in New York state 442. That is, 6.1% of the dental students in the United States are found in New York state schools. 19 of the 56 dental schools in the United States reported total property \$1,150,915, and 2 of the 3 New York schools \$192,515, or 16.7%.

Dental school summaries 1889-99

| Year | Institutions | Officers of instruction | STUDENTS | | | | D. D. S. degrees conferred | Prizes | Scholarships | Library, vols. | TOTAL | | |
|------|--------------|-------------------------|----------|-----------------|--------------|-------|----------------------------|--------|--------------|----------------|----------|----------|--------------|
| | | | Graduate | D. D. S. course | Unclassified | Total | Holding degrees | | | | Property | Receipts | Expenditures |
| 1889 | 1 | 31 | 3 | 245 | ..... | 248 | ..... | 70 | ..... | ..... | ..... | 25 579 | 25 597 |
| 1890 | 1 | 48 | 80 | 247 | ..... | 327 | ..... | 80 | ..... | ..... | 5 579 | 24 502 | 28 633 |
| 1891 | 1 | ? | ..... | 283 | ..... | 283 | ..... | 85 | ..... | ..... | 3 500 | 36 424 | 36 425 |
| 1892 | 1 | ? | 1 | 282 | ..... | 283 | 4 | 86 | ..... | ..... | 121 527 | 35 058 | 20 058 |
| 1893 | 3 | 69 | 8 | 320 | ..... | 328 | 8 | 52 | ..... | ..... | 2128 986 | 334 268 | 336 140 |
| 1894 | 3 | 67 | 9 | 403 | 1 | 413 | 5 | 68 | ..... | 150 | 147 788 | 51 252 | 50 641 |
| 1895 | 3 | 88 | ..... | 505 | ..... | 505 | 16 | 117 | ..... | 153 | 147 123 | 67 142 | 67 130 |
| 1896 | 3 | 109 | ..... | 525 | ..... | 525 | 9 | 113 | ..... | 63 | 175 860 | 70 439 | 61 784 |
| 1897 | 3 | 107 | ..... | 503 | 8 | 511 | 5 | 152 | ..... | ..... | 195 015 | 76 865 | 72 463 |
| 1898 | 3 | 115 | 2 | 411 | 25 | 498 | 4 | 130 | ..... | 178 | 199 316 | 68 450 | 65 865 |
| 1899 | 3 | 104 | 6 | 492 | ..... | 498 | 7 | 114 | ? | 159 | 201 295 | 76 385 | 73 531 |

^a Not including New York dental school which did not report.

^b Including five B. D. S. conferred.

^c Not including Univ. of Buffalo.

This table shows a growth in 10 years of 2 or 200% in institutions; in nine years of \$195,716 or 3508% in total property, an annual average increase of 389.7%; in 10 years of \$50,806 or 199% in total receipts, an annual average increase of 19.9%; in 10 years of \$47,934 or 187% in total expenditures, an annual average increase of 18.7%.

The seven degrees held by dental students in 1899 were classified as follows: B.A. 3; B.S. 1; M.D. 2; other degrees 1.

Dental examinations

Dental license. Laws 1895, ch. 626 provide for dentists requirements as to license and registration similar to those fixed by law for physicians.

Examinations for license to practise dentistry in this state have been or are to be held as follows:

| Dates | | |
|-----------------|-----------------|-----------------|
| 1898 | 1899 | 1900 |
| September 27-30 | January 24-27 | January 23-26 |
| | April 4-7 | May 22-25 |
| | May 16-19 | June 19-22 |
| | June 13-16 | September 25-29 |
| | September 26-29 | |

Places

New York, Albany, Syracuse, Buffalo. Each candidate is notified as to exact place.

Daily program

| | 9.15 a. m. | 1.15 p. m. |
|------------------|--------------------------------------|----------------------------|
| <i>Tuesday</i> | Anatomy | Physiology and hygiene |
| <i>Wednesday</i> | Chemistry and metal- lurgy | Oral surgery and pathology |
| <i>Thursday</i> | Operative dentistry | Prosthetic dentistry |
| <i>Friday</i> | Therapeutics and ma- teria medica | Histology |

Results of dental licensing examinations

| | 1896 | 1897 | 1898 | 1899 |
|---------------------------------|------|------|------|------|
| Examinations | 5 | 5 | 5 | 5 |
| Candidates | 170 | 279 | 274 | 224 |
| Examined | 162 | 264 | 268 | 222 |
| Rejected | 52 | 46 | 67 | 39 |
| Per cent rejected | 32 | 17.4 | 25 | 17.5 |
| Licenses issued | 110 | 218 | 201 | 183 |
| Honor licenses issued | 7 | 17 | 43 | 67 |

The per cent rejected in 1899 was 7.5 less than in 1898, the number of honor licenses increased 56% for the year and 857% for the three years.

Per cent licensed

| | 1896 | 1897 | 1898 | 1899 |
|---|------|------|------|------|
| ^a Examined on graduation | 75.8 | 93.6 | 87.4 | 96.1 |
| ^a Examined after one year's practice | 83.3 | 68.7 | 92.5 | 88 |
| ^a Examined after two years' practice | 100 | 100 | 88.8 | 75 |
| ^a Examined after from three to at least 14 years' practice | 40 | 50 | 80 | 100 |

In 1899 those examined after three or more years' practice were more successful than those fresh from school and those examined after one year's practice lacked only 8.1% of doing as well.

Rejections by topics

| | 1896 | 1897 | 1898 | 1899 |
|---|------|------|------|------|
| Anatomy | 21 | 14 | 20 | 11 |
| Physiology and hygiene | 14 | 19 | 23 | 12 |
| Chemistry and metallurgy | 8 | 1 | 7 | 4 |
| Oral surgery and pathology | 5 | 9 | 11 | 15 |
| Operative dentistry | 4 | 9 | 13 | 9 |
| Prosthetic dentistry | 16 | 6 | 8 | 13 |
| Therapeutics and materia medica | 25 | 10 | 22 | 14 |
| Histology | 28 | 19 | 26 | 16 |

In 1899 the rejections in two topics only were greater than in 1898 namely, oral surgery and pathology, and prosthetic dentistry.

^a Each candidate who fails is counted only once.

Comparison of dental schools in New York and other states and countries

The following table shows for 1899 the rejections by topics: group 1, New York schools; group 2, schools in other states and countries. Each applicant is counted only once in the number of candidates but under the several topics each failure is indicated, excluding any answer papers not examined. Of the papers submitted by 116 graduates of New York schools only 20 were rejected, while 40 written by 66 graduates of schools in other states were rejected. In addition to the above there were 5 candidates who had filed certificates of study under private preceptors before Aug. 1, 1895, 29 of whose papers were rejected, one candidate that held a diploma from a Russian university, 5 of whose papers were rejected, and 10 candidates, graduates of schools against which no failure was charged in 1899.

New York schools

| | Number of candidates | Anatomy | Physiology and hygiene | Chemistry and metallurgy | Oral surgery and pathology | Operative dentistry | Prosthetic dentistry | Therapeutics and materia medica | Histology | Total |
|---------------------------------|----------------------|---------|------------------------|--------------------------|----------------------------|---------------------|----------------------|---------------------------------|-----------|-------|
| N. Y. college of dentistry..... | 36 | .... | .... | .... | .... | .... | .... | 1 | .... | 1 |
| N. Y. dental school..... | 14 | .... | .... | .... | .... | .... | 1 | .... | .... | 1 |
| Univ. of Buffalo, dent. dep't.. | 66 | .... | 4 | .... | 3 | .... | 6 | 3 | 2 | 18 |
| Total..... | 116 | .... | 4 | .... | 3 | .... | 7 | 4 | 2 | 20 |

Schools in other states and countries

| | 2 | 1 | .... | .... | .... | 1 | .... | .... | 1 | 3 |
|--|----|------|------|------|------|------|------|------|------|----|
| Northwestern univ., Ill..... | 2 | 1 | .... | .... | .... | 1 | .... | .... | 1 | 3 |
| Univ. of Iowa..... | 1 | .... | .... | .... | .... | .... | 1 | .... | .... | 1 |
| Baltimore coll. of dent. surg.. | 9 | 2 | 1 | .... | 1 | 1 | .... | 2 | 2 | 9 |
| Univ. of Michigan, dent. dep't. | 2 | .... | .... | .... | .... | .... | 1 | .... | .... | 1 |
| Cincinnati coll. of dent. surg. | 1 | 1 | 1 | 1 | 1 | .... | 1 | 1 | 1 | 7 |
| Penn. coll. of dent. surg..... | 12 | 1 | .... | .... | 3 | 1 | 1 | 2 | 2 | 10 |
| Phila. dent. coll..... | 17 | 1 | .... | .... | 1 | .... | .... | .... | 2 | 4 |
| Univ. of Penn., dent. dep't... | 21 | .... | .... | .... | 1 | .... | .... | .... | .... | 1 |
| Vanderbilt univ..... | 1 | .... | 1 | .... | 1 | 1 | .... | .... | 1 | 4 |
| Cert. Imp. univ. of St Vladimir, Kieff, Russia..... | 1 | 2 | .... | .... | 1 | 1 | .... | 1 | .... | 5 |
| Exemption laws..... | 5 | 3 | 5 | 3 | 3 | 4 | 2 | 4 | 5 | 29 |
| Total .. | 72 | 11 | 8 | 4 | 12 | 9 | 6 | 10 | 14 | 74 |

Veterinary medicine

Report of secretary of the University

Veterinary receipts and disbursements. June 21, the secretary sent to the five state veterinary examiners the following statement of receipts and expenditures connected with the administration of the veterinary laws from Aug. 1, 1898, to July 31, 1899.

To the state board of veterinary medical examiners

As the executive officer of the University, I transmit herewith a summary of the records and vouchers in this office (all of which are open to your inspection) of the receipts and expenditures connected with the veterinary medical examinations provided for by laws of 1893, ch. 661, as amended in 1895 and 1896, but not including the veterinary medical student examinations, the expenses of which we bear in full.

From Aug. 1, 1898 to July 31, 1899, there were five examinations for license to practise veterinary medicine, at which 20 candidates appeared before the board. In accordance with law, the regents have paid part of the expenses properly chargeable to these examinations, i. e. they have paid, as appears below, \$30.55 for printing and the local expenses of conducting examinations at various points throughout the state. Deducting this amount from the net receipts, \$130, leaves a balance of only \$99.45, which obviously does not cover the office expenses, postage, expressage and equitable parts of salaries of clerks conducting the correspondence and handling the records of these examinations. But it seems just to provide this amount and allow the examiners half, partly covering postage, expressage and necessary traveling expenses in performance of their official duties. We pay only part of our necessary expenses, \$49.70, and apportion the balance, \$49.75, among the five examiners, giving each \$9.95.

MELVIL DEWEY

Secretary of the University

Receipts

| | | |
|----|--------------------|-------|
| 15 | \$10 fees | \$150 |
| 2 | " returned .. | 20 |

\$130

Payments

| | | |
|---|---------|-------|
| Printing | \$1 40 | |
| Local expenses of conducting examinations at various points throughout the state | 29 15 | |
| Part of necessary expenses and clerks in Albany | 49 70 | |
| | | 80 25 |
| To be apportioned | \$49 75 | |

State board of veterinary examiners

Summary of minutes of annual meeting held at the Academy of
medicine, 9 Sep. 1899

The following officers were elected.

President James Law

Secretary W. Henry Kelly

Editor C. D. Morris

Materia medica, therapeutics and chemistry were assigned to
George H. Berns; anatomy and surgery to W. L. Baker.

W. HENRY KELLY

Secretary state board of veterinary examiners

Veterinary students in New York state

| NAME | 1899 | 1890 | 1891 | 1892 | 1893 | 1894 |
|--|------|------|------|------|------|------|
| N. Y. college of veterinary surgeons | 67 | 115 | 104 | 81 | 75 | 109 |
| American veterinary college | 180 | 182 | 180 | 145 | 149 | 124 |
| N. Y. state veterinary college | | | | | | |
| | 197 | 247 | 234 | 226 | 224 | 233 |

| NAME | 1895 | 1896 | 1897 | 1898 | 1899 |
|--|------|------|------|------|------|
| N. Y. college of veterinary surgeons | 107 | 60 | 46 | 33 | 37 |
| American veterinary college | 83 | 87 | 62 | 46 | 22 |
| N. Y. state veterinary college | | | 11 | 17 | 24 |
| | 190 | 147 | 119 | 96 | 83 |

In 1899 there was a decrease of 13 in veterinary students and the number reported is less than that of 1889 by 114 or 57.8% an annual average decrease of 5.8%.

The total number of veterinary students in the United States for 1898 as shown by *Professional education in the United States* was 368, in New York state 99. That is 26.9% of the veterinary students in the United States are found in New York state schools. 8 of the 17 veterinary schools in the United States reported total property \$426,697, and 2 of the 3 New York schools \$175,697 or 41.2%.

Aug. 7, 1899, New York university consolidated with itself the New York college of veterinary surgeons and the American veterinary college, all the professors voluntarily resigning their positions to accomplish the union. The schools were united under the title of the New York American veterinary college, and hereafter New York university will grant the degree of doctor of veterinary surgery. By the consolidation the new college becomes the only school of veterinary medicine in New York city and it is placed on a strictly university footing. This action should give New York city one of the best schools of this kind in the world.

Veterinary school summaries 1898-99

| Year | Institutions | Officers of Inst. | STUDENTS | | | | | V. S. or D. V. S. degrees conferred | Prizes | Scholarships | Library, vols. | TOTAL | | |
|---------|--------------|-------------------|----------|---------------------|----------|-------|-----------------|-------------------------------------|--------|--------------|----------------|------------|----------|--------------|
| | | | Graduate | a Veterinary course | Ungraded | Total | Holding degrees | | | | | b Property | Receipts | Expenditures |
| 1899... | 2 | 88 | ... | 197 | ... | 197 | ... | 65 | 45 | ... | 150 | \$60 800 | \$12 851 | \$12 243 |
| 1890... | 2 | 88 | 19 | 228 | ... | 247 | ... | 56 | 242 | ... | 400 | 40 550 | 13 194 | 18 194 |
| 1891... | 2 | ? | ... | 234 | ... | 234 | 1 | 76 | 218 | ... | 210 | 60 750 | 17 183 | 17 487 |
| 1892... | 2 | ... | ... | 236 | ... | 226 | ... | 76 | 188 | ... | 300 | 60 750 | 16 784 | 16 679 |
| 1893... | 2 | 81 | 1 | 238 | ... | 224 | 2 | 78 | 288 | ... | 600 | 80 750 | 14 120 | 14 120 |
| 1894... | 2 | 86 | 1 | 233 | ... | 233 | 14 | 64 | 286 | ... | 600 | 80 750 | 15 565 | 14 065 |
| 1895... | 2 | 87 | 1 | 190 | ... | 190 | 11 | 52 | 235 | 150 | 700 | c | 17 990 | 17 990 |
| 1896... | 2 | 88 | ... | 147 | ... | 147 | 9 | 55 | 215 | ... | 900 | c | 14 485 | 14 485 |
| 1897... | 3 | 52 | ... | 119 | ... | 119 | 5 | 41 | 290 | 245 | 1 500 | 178 238 | 41 906 | 40 510 |
| 1898... | 3 | 59 | 7 | 89 | ... | 96 | 10 | 40 | ? | ? | 1 638 | 175 697 | 86 704 | 86 774 |
| 1899... | 3 | 55 | 2 | 81 | ... | 83 | 8 | 16 | ? | ? | 2 909 | 180 103 | 84 003 | 85 686 |

a V. S., D. V. S. or D. V. M. conferred.

b New York coll. of veterinary surgeons not included; owns no property.

c Not fully reported.

This table shows a growth in 10 years of 1 or 50% in institutions; of \$119,803 or 199% in total property, an annual average increase of 20%; of \$21,658 or 175% in total receipts, an annual average increase of 17.5%; of \$23,443 or 191% in total expenditures, an annual average increase of 19.1%.

The 11 degrees held by veterinary students in 1899 were classified as follows: B.A. 1; Ph. B. 1; M.D. 1; other degrees 8.

Veterinary examinations

Veterinary license. Laws of 1895, ch. 860 provide for veterinarians requirements as to license and registration similar to those fixed by law for physicians and dentists.

Examinations for license to practise veterinary medicine in this state have been or are to be held as follows:

Dates

| 1898 | 1899 | 1900 |
|-----------------|-----------------|-----------------|
| September 27-30 | January 24-27 | January 23-26 |
| | April 4-7 | May 22-25 |
| | May 16-19 | June 19-22 |
| | June 13-16 | September 25-28 |
| | September 26-29 | |

Places

New York, Albany, Syracuse, Buffalo. Each candidate is notified as to exact place.

Daily program

| | 9.15 a. m. | 1.15 p. m. |
|------------------|---------------------------------|--------------------------|
| <i>Tuesday</i> | Comparative anatomy | Physiology and hygiene |
| <i>Wednesday</i> | Chemistry | Veterinary surgery |
| <i>Thursday</i> | Obstetrics | Pathology, diagnosis and |
| <i>Friday</i> | Therapeutics and materia medica | practice |

Results of veterinary licensing examinations 1896 to 1899 inclusive

| | 1896 | 1897 | 1898 | 1899 |
|---------------------------------|------|------|------|------|
| Examinations | 5 | 5 | 5 | 5 |
| Candidates | 8 | 15 | 29 | 20 |
| Examined | 6 | 12 | 29 | 20 |
| Rejected | 3 | 5 | 18 | 8 |
| Per cent rejected. | 50 | 41.6 | 62 | 40 |
| Licenses issued | 3 | 7 | 8 | 12 |
| Honor licenses issued | 0 | 0 | 0 | 0 |

Rejections by topics

| | 1896 | 1897 | 1898 | 1899 |
|-------------------------------------|------|------|------|------|
| Anatomy | 2 | 0 | 2 | 4 |
| Physiology. | 4 | 2 | 0 | 0 |
| Chemistry | 2 | 2 | 6 | 1 |
| Surgery | 2 | 0 | 7 | 0 |
| Obstetrics | 1 | 4 | 8 | 1 |
| Pathology, diagnosis and practice.. | 2 | 3 | 10 | 0 |
| Therapeutics and materia medica.. | 2 | 1 | 3 | 1 |

TECHNICAL**Certified public accountant***Action by the regents*

Amendment to rules. In May 1899 the New York state society of certified public accountants requested an amendment to the rule by which full C. P. A. certificates could be granted after examination to those having a satisfactory experience of five years in the study or practice of accounting.

Following is the substance of the request:

The study of accounting alone does not qualify one to be an expert public accountant. The certified public accountant should have knowledge of the practical workings of various kinds of business. Such knowledge can not be obtained by a study of

books on accounting or by experience in keeping one system of books for any number of years.

The knowledge necessary to perform public accountant work can be acquired only by actual experience in investigating, auditing, etc. in connection with various kinds of business and systems of keeping accounts. The certified public accountant appears before the public vouched for by the University. We therefore request that the rule may be amended so as to read:

5 The full C. P. A. certificate is to be granted only to those at least 25 years of age, who have had five years' satisfactory experience in the practice of public accounting.

At a meeting of the regents held June 26, 1899 the following action was taken:

Voted, That the rule for C. P. A. certificates be modified to read as follows:

The full C. P. A. certificate is granted only to those at least 25 years of age who have had three years' satisfactory experience in the practice of accounting, one of which shall have been in the office of an expert public accountant.

C. P. A. examiners. In June 1899 Charles W. Haskins, John R. Loomis and A. O. Kittredge were appointed by the regents C. P. A. examiners for the year ending July 31, 1900. At a meeting held Oct. 26, 1899, the C. P. A. examiners elected the following officers.

President Charles W. Haskins

Secretary John R. Loomis

C. P. A. certificates. On recommendation of the C. P. A. examiners that her experience as an accountant be accepted as satisfactory under the rule in force at the time of her professional examination,

Voted, That the full C. P. A. certificate be granted to Christine Ross, who passed successfully the professional examinations in June 1898.

Report of secretary of the University

Public accountant receipts and expenses. June 28, the secretary sent to the state controller the following statement of receipts and expenditures connected with the administration of the laws of 1896, ch.312, §2, from Jan. 1, 1898, to Dec. 31, 1898:

Hon. WILLIAM J. MORGAN

State controller

DEAR SIR: In accordance with laws of 1896, ch.312, §2, I report public accountant receipts and expenses from Jan. 1, 1898, to Dec. 31, 1898. There were received 12 fees of \$25 each or \$300, of which six were returned, leaving \$150 total net receipts for the year. In accordance with the law as interpreted by the attorney general, we have expended the entire amount as follows:

| | |
|---|---------|
| Printing circulars and blanks | \$16 30 |
| Expenses of examination in New York city | |
| December 1898 | 58 80 |
| Paid to 3 examiners to reimburse them for postage and express paid out in pursuance of official duties \$12.48 each | 37 44 |
| Part of office expenses including salaries, post- age, express, etc. | 37 46 |

\$150

Respectfully submitted

MELVIL DEWEY

Secretary of the University

Public accountant receipts and expenses. June 28, the secretary sent to the state controller the following statement of receipts and expenditures connected with the administration of the laws of 1896, ch.312, §2, from Jan. 1, 1899, to Sep. 31, 1899:

Hon. WILLIAM J. MORGAN

State controller

DEAR SIR: In accordance with the laws of 1896, ch.312, §2, I report public accountant receipts and expenses for Jan. 1, 1899, to Sep. 31, 1899. There were received six fees of \$25 each or

\$150, of which two were returned, leaving \$100 total net receipts for the year. The balance from last year \$225 (retained for necessary expenses which might arise before any farther fees were received) plus the total net receipts make \$325, which in accordance with the law has been expended as follows:

| | |
|---|----------|
| Paid to 3 examiners for postage, express, travel and other official expenses | \$153 90 |
| Part of expenses of conducting examinations and of printing, postage, express, travel and other necessary office expenses | 171 10 |
| | <hr/> |
| | \$325 |

Respectfully submitted

MELVIL DEWEY
Secretary of the University

Certified public accountant examinations

C. P. A. examinations. These tests have been or are to be held under laws of 1896, ch. 312 as follows.

Dates

| 1897 | 1898 | 1899 | 1900 |
|------------|----------------|------------|---------------|
| June 15-16 | June 14-15 | June 13-14 | January 23-24 |
| | December 14-15 | | June 12-13 |

Places

New York, Albany, Syracuse, Buffalo. Each candidate is notified as to exact place.

Daily program

| | Morning | Afternoon |
|------------------|--------------------|----------------------|
| | 9.15 a. m. | 1.15 p. m. |
| <i>Tuesday</i> | Theory of accounts | Practical accounting |
| <i>Wednesday</i> | Auditing | Commercial law |

Results of C. P. A. examinations, 1896-99

| | Number of candidates | Number rejected | Per cent accepted |
|--------------|-------------------------|--------------------|----------------------|
| 1896-97..... | 14 | 6 | 57.1 |
| 1897-98..... | 15 | 9 | 40 |
| 1898-99..... | 17 | 7 | 58.8 |
| Total..... | 46 | 22 | 52.1 |

Rejections by topics

| | 1897 | 1898 | 1899 |
|---------------------------|------|------|------|
| Theory of accounts..... | 2 | 6 | 3 |
| Practical accounting..... | 4 | 4 | 4 |
| Auditing..... | 2 | 2 | 1 |
| Commercial law..... | 6 | 4 | 2 |

Business education

I. O. Crissy, inspector of business education, submits the following report for the academic year 1899.

It is gratifying to note that since the submission of my first annual report in 1898 there has been a distinct and even rapid advance in business education toward higher standards and more and better work. There has been during the year an increasing demand for state business credentials, requiring a full school year of technical instruction. The business schools of the better class are advocating, through their prospectuses and periodicals, courses of at least a year's duration; and there is a very general abandonment of the pretension that an education for business can be imparted to the average student in three or four months. The demand for more and better facilities for business education is meeting with a prompt and effective response. The proprietary schools in many cases are enlarging their facilities, increasing their equipment and adding to the teaching force for their regular courses; and in their night sessions are putting forth unusual efforts to instruct those who find in such schools their only opportunity for obtaining a knowledge of the theory and methods of business.

But the enlargement in opportunities and facilities for business education has not been confined to the proprietary schools. In the city of Syracuse the board of education has devoted one of its school buildings to elementary instruction in business branches. Many high schools and academies throughout the state have established four year commercial courses with the intention of making the state business diploma and the state stenographers diploma their graduating credentials. New York city, not content with four year commercial courses in three high schools, is preparing to open in a new building a public high school devoted exclusively to business education and maintaining a four year course which covers a considerable amount of laboratory and advanced work. Brooklyn also has a separate commercial high school. The New York chamber of commerce has had under consideration since the spring of 1898 the question of business education in New York, and, as a result of careful investigation by the committee on foreign relations and the revenue laws, to which the matter was referred, has authorized an arrangement with Columbia university for the establishment of a college of commerce. Courses of study have been reported to the chamber by Pres. Low, and it is understood that the college is to be opened as soon as details can be arranged—probably at the beginning of the next academic year.

The sudden expansion of American commerce during the past three years, due chiefly to the increased export of manufactured goods, which has reached an average of \$1,000,000 daily, has been a surprise to the statisticians. Our country is now recognized by European commercial nations as a dangerous competitor in the markets of the world. We have supplied English railways with locomotives and steel rails and have shipped them also to Australia and India. We have sold pig-iron in Birmingham and cutlery in Sheffield. England and Germany are buying our boots and shoes, and American goods are constantly gaining popularity in every part of the world where they have been properly intro-

duced, and are competing successfully even in countries which are leading producers of similar goods. In China and other non-manufacturing countries our success will be limited only by the extent of our own efforts.

The great field which manifest destiny is opening to us will demand a new army of trained workers, and it must be recruited from those who have been specially educated for the work. American "push" and shrewdness are proverbial. If there be added to these natural endowments a sound education, a thorough business training, and a comprehensive knowledge of merchandise and of the trade customs and language of the country to which he is sent, the American will "hold his own" and a little more in the markets of any country to which he is sent.

These conditions, present and prospective, are making new and imperative demands on business education, and our business educators should be prompt to recognize these demands and to meet them immediately and effectively.

Business "colleges". In conformity to law, the use of the name college has now been discontinued except by a very few old schools which had special permission to continue the use of the name. The strongest and best of the schools in the state, notwithstanding such permission, decided that it was much more dignified and would better serve their interest to adopt the name school, academy or institute, and drop the pretentious title which had brought them into ridicule and had precluded them from that sympathy and cooperation with people interested in education which their work had really deserved. The marked change has resulted in largely sterilizing New York as a field for the traveling adventurer who descended on a confiding community with pretentious circulars (and sometimes with waving banners and a band of music) and schemes for a great business "college"; sold life scholarships or any kind of promises or pledges which would bring financial returns; carried on the school for a few months; and then, sometimes, folded his tents like the Arabs and

disappeared, or, oftener, effected some so-called "sale" of the school, by which the people who had paid in their money found that it was to yield them nothing. Within the past year the office has learned of efforts of this kind where the experienced business college fakir started in glibly with his usual plan, but was compelled to leave the town because the people had come to understand that, if they wanted business education, the value of which they appreciate more and more, they could get it from established institutions which had earned a reputation for honest and efficient work, or from their own high schools and academies, and that it was a waste of money to encourage mere educational adventurers. These men are happily learning that New York is the least desirable field in the country in which to operate their schemes and one by one are stealing away to ply their trade in other states. The result is a great benefit to the public, and incidentally the reputable schools which deserve public support will get more of it, and will be able with larger pecuniary returns to improve still farther the excellent opportunities some of them are now offering.

Registered business schools. Registered schools are of two grades — those having full registration and those having provisional registration. The number of registered schools reported in 1898 was 23. Of these 10 had full registration and 13 provisional registration. Full registration is granted only to schools having a faculty of not less than six competent teachers giving full time to the work, and business school equipment of not less than \$5000 in value exclusive of building and ordinary fixtures. Provisional registration is granted to schools having a faculty of less than six teachers, and equipment less than \$5000 in value; but the equipment and teaching force must in all cases be adequate to the number of students enrolled. Every registered school must maintain satisfactory educational standards and also offer and maintain an approved course for the state business diploma. Only schools that are in all respects of good repute are admitted to registration. Three schools have been registered during the year

and one has been taken from the list. The number now having full registration is 11, provisional registration, 14. Any person interested can be informed as to exact teaching force and equipment of any registered school on application to the University.

A number of applications for registration are pending and it is probable that some of these will meet the requirements during the present school year. It is not expected, however, that the number of registered schools will be greatly increased.

Effects of registration. Registration has given greater dignity to the schools to which it has been granted, and has materially enhanced public confidence in the schools. A correspondent in the western part of the state writes under date of Mar. 24, 1899:

My school is prospering much better this year than last; all of which is due to the regents' recognition of its work. Our people are quick to notice the difference between a registered school and one not registered. I am heartily in favor of making the course of study in the business schools of as high a standard as possible. This can only be done by having the regents take care of the work.

Another correspondent in an eastern city says:

Our business men are taking great interest in the state business credentials. They have confidence in the regents examinations.

The proprietor of one of the oldest and largest business schools in the state writes:

We are ready to extend every warranty that we will merit your confidence and give unreserved support to any measures your office may have in view for the advancement of education for business. It means for us not only better standing as educators, but an increase in our annual income.

The manager of another great and successful school says:

We have given the state business diploma course the greatest prominence in our catalogue, as you will see by the copy mailed you today, and have talked it in every available instance.

Movement in other states. The new departure in business education in New York is not only meeting with increased favor at home, but is attracting serious attention in other states. A movement looking toward state supervision was made in one or more

of the western states last spring, and at the present time our eastern neighbor, Massachusetts, is moving with much apparent earnestness in the same direction.

The Eastern commercial teachers association, representing the New England states, New Jersey, Pennsylvania and New York, at its recent session in Worcester, adopted with but one dissenting vote the following resolution:

Resolved, That it is the sense of this convention of the Eastern commercial teachers association that state supervision should be established.

Early in December a letter was received from the principal of one of the leading proprietary business schools of Ohio, asking for information and saying:

"The business educators of Ohio are about to organize to secure state supervision of business education on lines similar to those of New York. We feel that the proper status of our profession, as well as broad public interests, requires this action." A state association of the proprietary schools was promptly organized, and during the session of the Commercial teachers federation in Chicago I was invited to address a special meeting of the association on details of the work in New York. All points were freely discussed and the association determined to ask the legislature to pass the laws necessary to give effect to the object sought. The business educators of Michigan also have appointed strong committees to secure similar action in that state. In the Kentucky legislature a measure has just been introduced to provide for state supervision of business schools. The Business teachers association of the federation adopted resolutions favoring uniform courses of study and uniform examinations, and these resolutions were referred to the executive committee with instructions to report to the next meeting a working plan for carrying out the spirit of the resolutions.

State association. After two preliminary meetings in the city of New York, an association of the registered business schools, under the name of New York state business school association, was

organized in Albany during convocation week. The leading objects of the association, as set forth in its constitution, are to protect business school interests and promote harmony and good fellowship among business school men. This organization promises to be of great value. It will have a strong and vigilant executive committee clothed with power of immediate action in cases of emergency; and, as its members will be distributed in different parts of the state, it will be able to receive prompt information concerning the interests of the schools. The association will also be a means of keeping the schools in close touch with the University and will afford a ready medium of apprising it authoritatively of the views of a majority of the schools on such questions as may from time to time arise. The association has already demonstrated its usefulness as a promoter of harmony among proprietors and as a means of official communication with the University, and it seems likely to prove an effective force in protecting the public interests as well as those of the schools, in the matter of genuine business education.

Reports. Formal detailed reports for the year have been received from all the registered schools. From these it appears that the total value of the school property was \$321,348.48, and the value of business school equipment, \$95,619.78. The total number of teachers giving their full time to the work was 192, including 71 women. The total number of students enrolled during the year was 8427, including 3126 women.

The greatest number of days in actual session was 308, reported by two schools; the least, 195 days, reported by one school, all others reporting 200 and upward. The number reporting over 300 days was four; over 250, and less than 260, four; from 240 to 249, inclusive, five; from 200 to 220, inclusive, 11; under 200, one; not reporting, one. All but one of the schools held evening sessions. The greatest number of evening sessions reported was 250; the least, 70.

Credentials and examinations. A revised business syllabus was issued by the University in April. This syllabus outlined in some detail the requirements of the tests on which the state business credentials are granted, and gave some suggestions as to methods of teaching the different subjects. Originally the required subjects were as follows:

State business diploma and certificate

| | |
|----------------------|---|
| Advanced bookkeeping | Business arithmetic |
| Commercial law | Business practice and office methods |
| Business English | Commercial geography and history of commerce |

State stenographers diploma and certificate

Business English Typewriting and amanuensis work
and the 125 word test in stenography (academic examination)

For the diplomas a preliminary education equal to 48 regents academic counts, including United States history, civics and economics, is required. For the certificates no preliminary academic education is required.

At the request of the New York state business school association, business writing (to be rated as to legibility, accuracy, speed and neatness) has been added as a separate subject to the requirements for business diplomas and certificates, and commercial geography and history of commerce have been made separate subjects. The state stenographers certificate will be accepted in place of commercial geography and history of commerce, if so elected by the candidate.

For the stenographers credentials the 100 word test in stenography passed with honor (90% and upward) will be accepted instead of the 125 word test at 75% and upward.

After January 1900, two business examinations will be given each year, instead of one, as heretofore.

*Corrected calendar for business examinations***State business diploma and state business certificate****DATES**

| | 1900 | 1901 |
|------------------|-------------------------|-------------------------|
| | June 12-15 | January 22-25 |
| | DAILY PROGRAM | |
| | 9.15 a. m.— 12.15 p. m. | 1.15 — 4.15 p. m. |
| <i>Tuesday</i> | Advanced bookkeeping | Business arithmetic |
| <i>Wednesday</i> | Commercial law | Business practice, etc. |
| <i>Thursday</i> | Commercial geography | History of commerce |
| <i>Friday</i> | Business English | Business writing |

State stenographers diploma and state stenographers certificate

| | 1900 | 1901 |
|-----------------|-------------------------|----------------------------|
| | June 14-15 | January 24-25 |
| | DAILY PROGRAM | |
| | 9.15 a. m.— 12.15 p. m. | 1.15 — 4.15 p. m. |
| <i>Thursday</i> | | Typewriting and amanuensis |
| <i>Friday</i> | Business English | work |

An unexpectedly large demand from outside the state having entirely exhausted the first edition of the syllabus, a second edition embodying the changes above mentioned has been issued.

Examinations for the past academic year were held June 13-15. Eight schools sent up candidates for examination and the whole number of candidates taking examinations was 88. Of these, seven passed in advanced bookkeeping, nine in business arithmetic, 16 in commercial law, five in business practice and office methods, 29 in business English, eight in commercial geography and history of commerce, and four in typewriting and amanuensis work.

Credentials earned. The Heffley school of Brooklyn and the Henley of Syracuse have the honor of winning the first business credentials. In the Heffley school the following students passed in all the subjects required for the state business certificate, and obtained that credential:

| | |
|----------------------------|----------------------------|
| Augustus Seacord Bird | George Montgomery Marshall |
| Clarence Howard Montgomery | Anita Angeline Stella |

In the Henley, Elizabeth Platz passed the examination in business English, and, having passed in 1898 the 125 word test in stenography and the typewriting and amanuensis test, obtains the state stenographers certificate. [For list of registered business schools, see Appendix]

OTHER

Library

Examinations

| | 1908 | | 1904 | | 1905 | |
|----------------------------------|---------|----------|---------|----------|-------------|----------|
| | PAPERS | | PAPERS | | PAPERS | |
| | Written | Accepted | Written | Accepted | Written | Accepted |
| General literature..... | 17 | 10 | 21 | 15 | 22 | 16 |
| “ information | 17 | 10 | 23 | 15 | 21 | 20 |
| “ history..... | 14 | 5 | 19 | 12 | 19 | 16 |
| Latin, 1st year..... | 1 | 1 | 4 | 3 | ..... | ..... |
| German, 1st year..... | 7 | 6 | 20 | 17 | ..... | ..... |
| “ 2d “ | 7 | 6 | 7 | 6 | ..... | ..... |
| French, 1st “ | 7 | 6 | 17 | 17 | ..... | ..... |
| “ 2d “ | 8 | 6 | 11 | 11 | ..... | ..... |
| Spanish, 1st “ ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Italian ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Elementary bibliography..... | 18 | 10 | 19 | 16 | 18 | 12 |
| Accession department work.... | 11 | 10 | 19 | 15 | 25 | 23 |
| Elementary cataloguing | 48 | 34 | 17 | 17 | 41 | 34 |
| “ dictionary catal'ing | 14 | 14 | 18 | 18 | 23 | 23 |
| Elementary classification..... | 24 | 22 | 25 | 23 | 25 | 23 |
| Shelf department work..... | 11 | 10 | 18 | 17 | 20 | 19 |
| Loan systems..... | 14 | 13 | 14 | 13 | 16 | 12 |
| Bookbinding | 12 | 7 | 17 | 15 | ..... | ..... |
| Advanced bibliography..... | 8 | 8 | 7 | 7 | 15 | 15 |
| Founding and gov'm't of lib'ries | 11 | 10 | 9 | 8 | 16 | 16 |
| Library buildings..... | 9 | 9 | 6 | 6 | 11 | 11 |
| Advanced cataloguing..... | 9 | 8 | 10 | 8 | 15 | 14 |
| “ dictionary catal'ing.. | 10 | 10 | 14 | 13 | 17 | 17 |
| “ classification ..... | ..... | ..... | 5 | 5 | 12 | 12 |
| History of libraries | 10 | 10 | 4 | 3 | 13 (1 oral) | 12 |
| Reading and literary methods.. | 8 | 8 | 5 | 5 | ..... | ..... |
| Printing “ ..... | ..... | ..... | ..... | ..... | 16 | 11 |
| Reading..... | ..... | ..... | ..... | ..... | 4 | 4 |
| Reference..... | ..... | ..... | ..... | ..... | 16 | 14 |
| Total..... | 285 | 233 | 329 | 185 | 380 | 333 |
| Total per cent rejected..... | 18 | | 19 | | 12 | |

SCHOOLS

school

1898-99

| 1896 | | 1897 | | 1898 | | 1899 | |
|---------|----------|---------|----------|---------|----------|---------|----------|
| PAPERS | | PAPERS | | PAPERS | | PAPERS | |
| Written | Accepted | Written | Accepted | Written | Accepted | Written | Accepted |
| 18 | 18 | 8 | 6 | 18 | 10 | 21 | 5 |
| 16 | 12 | 8 | 4 | 15 | 12 | 17 | 8 |
| 16 | 7 | 8 | 8 | 14 | 5 | 22 | 9 |
| 2 | 2 | 1 | 1 | 0 | 0 | 2 | 2 |
| 15 | 14 | 10 | 10 | 17 | 14 | 16 | 11 |
| 2 | 2 | 5 | 5 | 6 | 6 | 4 | 2 |
| 18 | 18 | 8 | 8 | 19 | 17 | 16 | 14 |
| 11 | 10 | 8 | 8 | 11 | 11 | 10 | 7 |
| | | | | | | | |
| 1 | 1 | ..... | ..... | 1 | 1 | ..... | ..... |
| 22 | 21 | 19 | 19 | 19 | 19 | 29 | 28 |
| 22 | 18 | 21 | 18 | 16 | 15 | 27 | 26 |
| 45 | 41 | 50 | 48 | 34 | 32 | 74 | 69 |
| 25 | 25 | 21 | 20 | 21 | 21 | 29 | 29 |
| 24 | 23 | 24 | 22 | 24 | 23 | 33 | 32 |
| 22 | 22 | 21 | 21 | 17 | 15 | 30 | 28 |
| 24 | 22 | 23 | 19 | 18 | 16 | 29 | 29 |
| 25 | 21 | 27 | 27 | 15 | 13 | 31 | 30 |
| 9 | 8 | 13 | 13 | 9 | 9 | 12 | 11 |
| 6 | 6 | 10 | 10 | 11 | 11 | 17 | 16 |
| 6 | 6 | 12 | 12 | 12 | 12 | 13 | 13 |
| 7 | 7 | 13 | 13 | 10 | 10 | 9 | 9 |
| 8 | 18 | 18 | 18 | 18 | 18 | 22 | 22 |
| 7 | 7 | 11 | 8 | 12 | 12 | 15 | 15 |
| 8 | 6 | 12 | 11 | 18 | 18 | 9 | 9 |
| | | | | | | | |
| 22 | 18 | 24 | 19 | 36 | 34 | 31 | 29 |
| 9 | 9 | 10 | 10 | 6 | 9 | 13 | 13 |
| 11 | 11 | 12 | 12 | 12 | 12 | 14 | 13 |
| 411 | 368 | 392 | 365 | 407 | 370 | 545 | 482 |
| 10.4 | | 6.9 | | 9+ | | 11+ | |

Library credentials issued

| | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Passcards | 7 | 5 | 161 | 270 | 259 | 236 | 296 | 367 | 349 | 354 | 369 | 451 |
| “ teachers..... | | | | | | | | 181 | 215 | 284 | 173 | 336 |
| Certificates | | | 10 | 5 | 24 | 10 | 8 | 17 | 7 | 14 | 11 | 20 |
| “ with honor | | | | | | | 5 | 3 | 4 | 2 | 5 | 9 |
| Diplomas | | 2 | 5 | 6 | 9 | 9 | 4 | 8 | 4 | 9 | 5 | 8 |
| “ with honor | | | 1 | 3 | 1 | | 1 | 3 | | | 2 | 0 |
| Degrees | | 1 | | 2 | 5 | 3 | | 2 | 1 | 1 | 4 | 1 |
| Total | 7 | 8 | 177 | 286 | 298 | 258 | 309 | 531 | 580 | 664 | 569 | 820 |

For a discussion of these tests see the report of the New York state library school.

Respectfully submitted

JAMES RUSSELL PARSONS JR

Director

Regents office, Albany N. Y.

15 Feb. 1900

APPENDIX

DEGREES CONFERRED BY THE UNIVERSITY

During the year the University has conferred the following degrees:

Bachelor of divinity. On the following (15) graduates of Union theological seminary

| | |
|-----------------------------|----------------------------|
| Cochran, John Blair | Mohr, Charles Adam |
| Connolly, Charles Parker | Peters, Frederick Augustus |
| Dill, Edmund Munro | Russell, James Elmer |
| Fitch, Wells Hubert | Steele, David McConnell |
| Fraser, John Keir Geddie | Whitaker, Charles Hurlbut |
| French, Calvin Hiram | Wiers, Edgar Swan |
| Garabedian, Hohannes Barkev | Wright, Edward Richard |
| Maddox, Aaron Wager | |

Bachelor of arts. On the following (15) graduates of Adelphi college

| | |
|-------------------------|----------------------|
| Brunn, Freda Marguerita | Mathews, Mary E. |
| Casamajor, Alice | Munson, Mabel Emily |
| Casamajor, Mary | Munson, Marie Louise |
| Johnson, Margaret Edith | Parker, Helen Cone |
| Johnston, Emma Louisa | Pfizer, Alice M. H. |
| Knudson, Mabel Alvord | Story, Edna |
| Lewis, Cornelia | Zollinhofer, Sophie |
| Lewis, Lucy Taylor | |

Bachelor of science. On the following (3) graduates of Adelphi college

| | |
|------------------------|----------------------|
| Morgans, Frank Davis | Womack, Mary Douglas |
| Seaman, Emily Cromwell | |

Doctor of medicine. On the following (6) graduates of the New York medical college and hospital for women

| | |
|-------------------------|--------------------------|
| Bowman, Alice Russell | Klein, Anna Katherine |
| Flanders, Anna R. Grace | Poindexter, Hattie Maria |
| Hertz, Sue Emma | Potter, Mary Emma |

Doctor of dental surgery. On the following (46) graduates of the New York college of dentistry¹

| | |
|-----------------------------|-------------------------------|
| Bamford, Austin Chester | Levy, Joseph Meyer |
| Birkhahn, Alexander Maurice | Limbarth, Carl Christian |
| Bowman, Harry | Longendyke, Le Roy |
| Braverman, Bernard | McGuirk, Edward Francis |
| Breen, John Miller | Payne, Alfred Devitt |
| Brown, Egbert Woodhull | Pentz, Robert Hastings |
| Davenport, Franklin Niles | Putnam, George Wheeler |
| De Voe, Arthur Smith | Quaile, Richard Davenport |
| Donlevy, John Patrick | Rabell, Charles Francis |
| Douglas, Walter George | Rebholz, Anthony Felix |
| Eichhorn, Max Leo | Riggs, Walter Clark |
| Foster, Clarence Dinsmore | Rubinoff, Joshua Max |
| Gibbins, Harry Joshua | Saghirian, Jivani Hartin |
| Green, Maurice | Strobridge, Robert |
| Hasbrouck, John Roswell | Urban, Charles |
| Holms, Frank Woodard | Van Gieson, Ransford Benjamin |
| Hough, Eli Charles | Van Orden, Charles Augustus |
| Howe, Clarence Otis Stephen | Vaughan, Ray Greene |
| Hubbell, Charles Gregory | Vogel, William Ptaczeck |
| Irving, William Watson | Walther, Arno William |
| Jeshurun, George | Weed, Thomas Morrison |
| Koch, John Peter | Weinlandt, William Osmon |
| Leprohon, Jean Baptiste | Zuchtmann, Simon |

¹ These degrees are granted by the trustees and directors on the recommendation of the faculty with the consent of the regents of the University.

On the following (12) graduates of the New York dental school

| | |
|-----------------------|---------------------------|
| Abel, Frank W | Rosenson, Anna |
| Ernst, Otto | Samson, George Dexter |
| French, Frank Whitney | Sinai, Matilda |
| Gruher, Herman | Suriani, Philip |
| Lewis, Edgar Flint | Sutherland, James Reynold |
| Mintz, Jacob J. | Tantum, Maria Louisa |

LICENSES ISSUED BY THE UNIVERSITY ON EX- AMINATION

During the year the University has issued licenses as a result of state examinations to

670 physicians

(599 old school, 52 homeopaths, 19 eclectic)

Physicians licensed at examinations, Aug. 1, 1898—July 31, 1899

Group 1, New York schools; group 2, schools in other states; group 3, schools in foreign countries.

h means passed the examinations with honor, i. e. at 90% or above in three fourths of the subjects.

New York schools

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|--|--------------------|---------------------|-------|-----------------|---------------|
| New York | | | | | |
| <i>Albany medical college</i> | | | | | |
| Adey, John Milton..... | 1899 | June | S | 81.8 | 2 |
| Failed..... | 1897 | Sep. | S | 66.6 | 2 |
| <i>h</i> Beilby, George Everett..... | 1899 | May | S | 92.7 | 1 |
| Bender, Austin Westley, jr..... | 1899 | May | S | 89.7 | 1 |
| Bently, Henry R..... | 1898 | May | S | 83.9 | 8 |
| Betts, Lester..... | 1899 | June | S | 80.4 | 1 |
| <i>h</i> Branch, Frederick Douglas..... | 1899 | June | S | 93.1 | 1 |
| Burtis, Frederick Fillmore..... | 1898 | May | S | 88.6 | 1 |
| Butler, Charles Sylvester..... | 1895 | May | S | 84.6 | 2 |
| Carpenter, Willard Oscar..... | 1898 | Sep. | S | 88.6 | 1 |
| <i>h</i> Cavanaugh, William John..... | 1899 | May | S | 93.7 | 1 |
| Collins, Thomas Dundon..... | 1898 | Sep. | S | 81.1 | 2 |
| Failed..... | 1899 | June | S | 80 | 1 |
| Cordes, Augustus Ernest, jr..... | 1899 | May | S | 88.8 | 1 |
| Cornell, Sanders Peter..... | 1897 | Ap. | S | 80.7 | 2 |
| Crissey, Gilbert Worden..... | 1899 | May | S | 79 | 1 |
| Cronk, James Monroe..... | 1898 | Sep | S | 81.1 | 2 |
| Deal, Fred Augustus..... | 1899 | May | S | 87.4 | 1 |
| Doig, James Edgar..... | 1899 | May | S | 82 | 1 |
| Everett, Warren Harkness..... | 1899 | May | S | 87 | 1 |
| Fairweather, Harry Ogden..... | 1896 | Sep. | S | 83.1 | 8 |
| Fish, George Houghton..... | 1899 | May | S | 87.8 | 1 |
| Flynn, James Henry..... | 1899 | May | S | 81 | 1 |
| Ford, Rupert William..... | 1899 | May | S | 89.9 | 1 |
| Failed..... | 1897 | Ap. | S | 80 | 2 |
| <i>h</i> Hacker, Christian Gottlieb..... | 1899 | May | S | 93 | 1 |
| Hammond, Henry Powers..... | 1899 | May | S | 89.4 | 1 |
| <i>h</i> Hanes, Edward L..... | 1899 | May | S | 92.6 | 1 |
| Harrison, Dean Samuel..... | 1899 | May | S | 86.1 | 1 |
| Healey, William Gregory..... | 1899 | June | S | 80.8 | 2 |
| Hinman, Eugene Eunson..... | 1899 | May | S | 89.9 | 1 |
| Hudson, William Thomas..... | 1899 | May | S | 81.9 | 1 |
| Huggins, Walter Leslie..... | 1899 | May | S | 87 | 1 |
| Failed..... | 1898 | May | S | 69 | 1 |
| Kinloch, Robert Ernest..... | 1899 | June | S | 84.7 | 2 |
| Kirk, William, jr..... | 1899 | June | S | 87.7 | 1 |
| Kivlin, Charles Franklin..... | 1898 | Sep. | S | 81.7 | 2 |
| Failed..... | 1899 | June | S | 84.8 | 1 |
| Leonard, Walter Adnah..... | 1899 | June | S | 85.1 | 1 |
| Failed..... | 1899 | June | S | 83.6 | 1 |
| Livingston, Bernard..... | 1899 | May | S | 81.3 | 1 |
| McCarthy, Daniel Albert..... | 1899 | May | S | 91 | 1 |
| McDonald, James Edward..... | 1899 | May | S | 88 | 1 |
| McMullen, Charles G..... | 1898 | Ap. | S | 86.7 | 1 |
| Mather, Berthier Whitford..... | 1899 | May | S | 88.1 | 1 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|---|--------------------|---------------------|-------|-----------------|---------------|
| <i>New York — Albany medical coll. (cont'd)</i> | | | | | |
| Moscrip, Ransom Sanford..... | 1899 | June | S | 88.2 | 2 |
| O'Brien, Pierce James..... | 1898 | Sep. | S | 78 | 1 |
| Parshall, Karl Albert..... | 1899 | May | S | 85.9 | 1 |
| Failed..... | 1895 | May | S | 67.9 | 7 |
| Quinlan, Edward Augustine..... | 1898 | May | S | 78.7 | 2 |
| Failed..... | 1899 | May | S | 67.7 | 1 |
| Ronan, Andrew Joseph..... | 1897 | Sep. | S | 82 | 2 |
| Ross, George Washington..... | 1899 | May | S | 78.9 | 1 |
| Salmon, Thomas William..... | 1899 | May | S | 88.1 | 1 |
| Shaw, Clayton Earl..... | 1899 | May | S | 81.8 | 1 |
| Shultes, Charles Abram..... | 1898 | Sep. | S | 81.4 | 2 |
| Failed..... | 1898 | May | S | 71.3 | 2 |
| Smart, Fred Adams..... | 1899 | June | S | 86.7 | 2 |
| Failed..... | 1899 | May | S | 80 | 1 |
| Stillman, Edgar Rosco..... | 1899 | May | S | 87.7 | 1 |
| Sweet, Byron Luther..... | 1899 | June | S | 89 | 1 |
| Thomas, Gilbert Van Vaulkenburgh... | 1898 | Ap. | S | 84.2 | 2 |
| Towne, George Scott..... | 1899 | May | S | 82.4 | 1 |
| Van Aernem, Meritt Elmer..... | 1899 | May | S | 84.4 | 1 |
| Vander Veer, Edgar Albert..... | 1898 | Sep. | S | 80.3 | 1 |
| Wansbury, Michael Francis..... | 1899 | May | S | 82.7 | 1 |
| Wardner, William Allen..... | 1899 | May | S | 88 | 1 |
| Failed..... | 1898 | May | S | 71 | 4 |
| White, Harry J..... | 1899 | May | S | 90.4 | 1 |
| Wilson, William Luther..... | 1898 | Jan. | S | 84.1 | 1 |
| Young, William Hamilton..... | 1899 | May | S | 84.1 | 1 |
| <i>Bellevue hospital medical college</i> | | | | | |
| Acton, Robert, jr..... | 1897 | June | S | 86.7 | 1 |
| Adler, Joseph..... | 1899 | Ap. | S | 81.2 | 1 |
| Beery, Edwin M..... | 1897 | Ap. | S | 88.1 | 1 |
| Borden, Matthew Sterling..... | 1893 | June | S | 81.5 | 3 |
| Failed..... | 1897 | Sep. | S | 66.4 | 3 |
| Buddeke, Charles Ivo..... | 1897 | Jan. | S | 88.3 | 1 |
| Butler, Francis Eugene..... | 1897 | June | S | 85.4 | 1 |
| Chalmers, Thomas Clark..... | 1897 | June | S | 82.8 | 1 |
| Chisholm, William Alex..... | 1896 | Jan. | S | 87 | 1 |
| Connor, Maurice Edward..... | 1897 | Jan. | S | 81.6 | 1 |
| Curran, Stanley Douglas..... | 1896 | Sep. | S | 92 | 3 |
| hCurtin, Thomas Hayes..... | 1897 | Jan. | S | 91.3 | 1 |
| Dorfmann, Samuel A..... | 1898 | Jan. | S | 81.6 | 2 |
| Dougherty, William John..... | 1898 | Jan. | S | 81.3 | 1 |
| Finke, Charles Henry..... | 1898 | Sep. | S | 84.4 | 2 |
| Gilmartin, Albert Edward..... | 1897 | Ap. | S | 83.6 | 2 |
| Glinnen, William Joseph..... | 1897 | Jan. | S | 79.1 | 1 |
| Gonzales, Thomas Arthur..... | 1898 | Jan. | S | 84.4 | 2 |
| Heydemann, Otto..... | 1898 | Jan. | S | 88.9 | 1 |
| Holzhausen, Charles Henry..... | 1898 | May | S | 82.1 | 1 |
| Jean, George William..... | 1898 | June | S | 83 | 1 |
| Kunz, Louis..... | 1899 | Jan. | S | 86.7 | 1 |
| Lurch, Albert David..... | 1898 | Jan. | S | 83.9 | 1 |
| MacMinn, Clarence Alfred..... | 1898 | Sep. | S | 84.9 | 1 |
| Mc Sweeney, Edward Sherman..... | 1898 | Jan. | S | 89.3 | 1 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|--|--------------------|---------------------|-------|-----------------|---------------|
| <i>New York—Bellevue hos. med. col. (cont'd)</i> | | | | | |
| Malony, William Nicholas | 1898 | May | S | 82.8 | 2 |
| Marston, Daniel William | 1898 | June | S | 78.1 | 1 |
| Matthews, George Henry | 1898 | Ap. | S | 81.4 | 1 |
| Meinhardt, Charles Frederick | 1898 | Ap. | S | 87.6 | 1 |
| Murphy, James Daniel | 1897 | May | S | 81.7 | 2 |
| Ogier, William Huff | 1897 | June | S | 92.2 | 1 |
| hPhelps, Charles Chamberlayne Kingsley | 1898 | Jan. | S | 90.4 | 1 |
| Ruggles, Mortimer Brainbridge, jr. | 1899 | Ap. | S | 87.9 | 1 |
| Scott, Elmer Albert | 1898 | Jan. | S | 82.4 | 2 |
| Stebbins, Walter Whitman | 1898 | Sep. | S | 87.7 | 1 |
| Tovey, David William | 1898 | Sep. | S | 81 | 1 |
| Townsend, Harry Brayton | 1898 | Sep. | S | 86.4 | 1 |
| Vidaver, Maxwell | 1898 | Sep. | S | 85 | 2 |
| Walsh, John Thomas | 1899 | May | S | 81.5 | 2 |
| Zimmermann, Victor Leo | 1897 | Sep. | S | 88.4 | 1 |
| <i>College of physicians and surgeons</i> | | | | | |
| Abbe, Truman | 1899 | June | S | 88.7 | 1 |
| Addoms, Lewis Paddock | 1899 | June | S | 87.2 | 1 |
| Addy, Arthur Rockwell | 1899 | June | S | 83.2 | 1 |
| hAnthony, Charles Leonard | 1899 | June | S | 91.8 | 1 |
| Appel, Hermann N. | 1899 | June | S | 88.1 | 1 |
| Aronson, Edward Aaron | 1899 | June | S | 88.8 | 1 |
| Bailey, Theodorus | 1899 | June | S | 86.2 | 1 |
| Barnes, George Edward | 1899 | June | S | 84.7 | 1 |
| Barnett, Edward Le Roy | 1899 | June | S | 85.7 | 1 |
| Barshell, Samuel | 1898 | Sep. | S | 87.6 | 1 |
| hBastedo, Walter Arthur | 1899 | June | S | 92 | 1 |
| Beer, Edwin | 1899 | June | S | 92.1 | 1 |
| Benjamin, Maxwell | 1898 | Jan. | S | 86.7 | 1 |
| Bero, Edward John | 1898 | Jan. | S | 86.3 | 1 |
| Bleick, Theodore Edward | 1899 | June | S | 83.8 | 1 |
| Bodine, Louis Albert Sayre | 1897 | Sep. | S | 84.9 | 1 |
| Bodkin, Dominic George | 1899 | June | S | 87.8 | 1 |
| Brady, Frederick Lebrun | 1899 | June | S | 84.1 | 1 |
| Brandeis, Julian Walter | 1899 | June | S | 87.7 | 1 |
| Buckley, Charles Frederick | 1898 | Ap. | S | 91.1 | 1 |
| Calhoun, William Caldwell | 1898 | May | S | 86.4 | 1 |
| Carleton, Spencer | 1898 | June | S | 90.4 | 1 |
| Clark, Abram Schuyler | 1899 | June | S | 88.7 | 1 |
| Clarke, William Cogswell | 1899 | June | S | 83 | 1 |
| Cohen, Martin | 1898 | Jan. | S | 85.4 | 1 |
| Cole, Lewis Gregory | 1898 | Sep. | S | 86.7 | 1 |
| Collins, John James | 1898 | Jan. | S | 80 | 2 |
| Cotter, John James | 1898 | Jan. | S | 87.6 | 1 |
| Cummings, John Joseph | 1899 | June | S | 85.4 | 1 |
| hDavis, Fellowes, jr. | 1899 | June | S | 93 | 1 |
| Donovan, Patrick George | 1899 | June | S | 80.1 | 1 |
| Downes, William Augustus | 1895 | May | S | 90 | 1 |
| Downs, Augustus Sherman | 1899 | June | S | 88.8 | 1 |
| Dryfoos, Arthur David | 1899 | June | S | 88.8 | 1 |
| Emerson, Haven | 1899 | June | S | 87.4 | 1 |
| Fischer, Carl Ferdinand Hermann | 1899 | June | S | 86.2 | 1 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|---|--------------------|---------------------|-------|-----------------|---------------|
| New York—Coll. phys. & surgeons (cont'd) | | | | | |
| Fitch, Charles Wilmer..... | 1899 | June | S | 84.4 | 1 |
| Fitzgerald, Charles Francis..... | 1898 | Jan. | S | 90.3 | 1 |
| h Floyd, Rolfe..... | 1899 | June | S | 95.4 | 1 |
| Fox, George Howard..... | 1893 | Jan. | S | 88.7 | 1 |
| Getman, J. Edgar..... | 1899 | June | S | 87.1 | 1 |
| Gilmour, Andrew James..... | 1899 | June | S | 88.5 | 1 |
| Goodfriend, Henry..... | 1898 | Jan. | S | 88.7 | 1 |
| h Gould, Everett Willoughby..... | 1899 | June | S | 94.4 | 1 |
| Gross, John Conrad..... | 1899 | June | S | 89.5 | 1 |
| Gross, Moritz..... | 1898 | Ap. | S | 83.9 | 1 |
| Haffner, Charles Alfred..... | 1898 | June | S | 85.5 | 1 |
| Hall, Myron Foster..... | 1899 | June | S | 84 | 1 |
| Hanan, James Taylor..... | 1899 | June | S | 84.4 | 1 |
| h Hughes, Frederic John..... | 1899 | June | S | 93.1 | 1 |
| Humpstone, Oliver Paul..... | 1899 | June | S | 86.2 | 1 |
| Hunt, Charles Frederick..... | 1898 | Jan. | S | 87.9 | 1 |
| Jackson, Reginald Henry..... | 1899 | June | S | 88.1 | 1 |
| Jacobs, William Ketchum..... | 1899 | June | S | 84.5 | 1 |
| h Jennings, John Edward..... | 1899 | June | S | 91.4 | 1 |
| Johnson, Edward West..... | 1898 | Jan. | S | 83.9 | 1 |
| Judkowitz, Herman..... | 1899 | June | S | 84.7 | 1 |
| Failed..... | 1899 | June | S | 84 | 1 |
| h Keschner, Moses..... | 1899 | June | S | 82.8 | 1 |
| Knight, Frank Henry..... | 1899 | June | S | 83.4 | 1 |
| Kopetzky, Samuel Joseph..... | 1898 | Jan. | S | 88.1 | 1 |
| h Lange, Christian Christoph Andreas..... | 1898 | Ap. | S | 94.4 | 1 |
| Lesser, Mozart Monae..... | 1899 | June | S | 85.5 | 1 |
| Lime, Arthur Maxwell..... | 1899 | June | S | 86.4 | 1 |
| Lougee, Arthur Jewett..... | 1896 | Jan. | S | 85 | 1 |
| Lyman, Henry Stoddard..... | 1899 | June | S | 87.5 | 1 |
| McCarthy, Edward John..... | 1898 | Sep. | S | 78.9 | 1 |
| McCastline, Robert..... | 1899 | June | S | 87 | 1 |
| McDonald, William, jr..... | 1899 | June | S | 88.5 | 1 |
| Failed..... | 1898 | June | S | 69.1 | 2 |
| McLaren, John Dice..... | 1896 | Ap. | S | 85.7 | 2 |
| McLeod, Harlow Comstock..... | 1898 | May | S | 85.9 | 1 |
| Maloney, Edward Robert..... | 1896 | June | S | 85.8 | 1 |
| Mendel, Edwin Marcus..... | 1899 | June | S | 87.5 | 1 |
| h Miller, James Alex..... | 1899 | June | S | 91.5 | 1 |
| Nesbitt, Robert Henry..... | 1899 | June | S | 89 | 1 |
| h Nugent, Edward Genung..... | 1897 | Jan. | S | 92.1 | 1 |
| O'Brien, Francis Jeremiah Vincent..... | 1899 | June | S | 87 | 1 |
| O'Connell, Joseph Henry..... | 1898 | Ap. | S | 90.1 | 1 |
| Failed..... | 1899 | June | S | 76.8 | 1 |
| Osgood, Alfred Townsend..... | 1899 | June | S | 89 | 1 |
| Payne, William Anderson..... | 1899 | June | S | 89.8 | 1 |
| Pierson, Frederick Harrison, jr..... | 1899 | June | S | 89.7 | 1 |
| Pool, Eugene Hillhouse..... | 1899 | June | S | 91.4 | 1 |
| Poor, Daniel Warren, jr..... | 1894 | Jan. | S | 89.6 | 1 |
| h Pyle, Immanuel..... | 1898 | Jan. | S | 92.8 | 1 |
| Ramnaud, George Gibier..... | 1899 | June | S | 90.1 | 1 |
| Roemer, William Benjamin..... | 1899 | June | S | 91.5 | 1 |
| Rosenberg, Maurice..... | 1899 | June | S | 80.7 | 1 |
| Rosenwasser, Charles Adolph..... | 1899 | June | S | 88.4 | 1 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|---|--------------------|---------------------|-------|-----------------|---------------|
| New York—Coll. phys. & surgeons (cont'd) | | | | | |
| <i>h</i> Ruhl, Henry Clay | 1898 | Sep. | S | 98.4 | 1 |
| Russell, Tracy George | 1899 | June | S | 98.4 | 1 |
| <i>h</i> Rutz, Anthony Alexander | 1899 | June | S | 94 | 1 |
| Ryder, George Hope | 1899 | June | S | 90.8 | 1 |
| <i>h</i> Schley, Winfield Scott | 1896 | Ap. | S | 98.3 | 1 |
| Scouler, Ambrose Alfonse | 1896 | Ap. | S | 88.9 | 1 |
| Shipley, Alfred Edward | 1899 | June | S | 89.2 | 1 |
| Shrier, Albert Franklin | 1899 | June | S | 85.7 | 1 |
| Sloan, Thomas George | 1899 | June | S | 84.4 | 1 |
| Smith, John Archibald | 1899 | June | S | 90.2 | 1 |
| Smith, Robert Newhall | 1897 | Sep. | S | 80.1 | 2 |
| Spencer, Frederick Hallett | 1899 | June | S | 85.4 | 1 |
| Squire, Amos Osborne | 1899 | June | S | 88 | 1 |
| <i>h</i> Stark, Meyer Maurice | 1899 | June | S | 91.4 | 1 |
| Stern, Abram Richard | 1899 | June | S | 89.1 | 1 |
| Stone, Squire Wilbert | 1899 | June | S | 86.4 | 1 |
| <i>h</i> Streeter, George Linius | 1899 | June | S | 95.1 | 1 |
| <i>h</i> Sutton, Edward Forrester Holden | 1899 | June | S | 91.2 | 1 |
| Tierney, Myles Joseph | 1899 | June | S | 88.7 | 1 |
| Tobias, Leo | 1897 | Sep. | S | 85.9 | 1 |
| Virgin, Frederick Oakman | 1899 | June | S | 86.2 | 1 |
| <i>h</i> Wadhams, Raymond Lynde | 1899 | June | S | 92.7 | 1 |
| Waechter, Adolf Ludwig | 1899 | June | S | 82.1 | 1 |
| Wheeler, David Everett | 1898 | Sep. | S | 91.7 | 1 |
| Wheeler, Lyman Hall | 1897 | Sep. | S | 80.2 | 2 |
| Wheeler, Richard Kimble | 1899 | June | S | 85 | 1 |
| <i>h</i> Williams, Linsly Rudd | 1899 | June | S | 89.5 | 1 |
| Wood, Alfred Trenchard | 1899 | June | S | 85.5 | 1 |
| Cornell university medical college | | | | | |
| Failed | 1899 | June | S | 79.8 | 1 |
| Banks, Effie Alberta Winifred Davey | 1899 | June | S | 90.4 | 1 |
| Bartholomew, Ellen Emma | 1899 | June | S | 82.7 | 1 |
| Benedict, Chauncy Mott | 1899 | June | S | 88.1 | 1 |
| Bradley, Frances Sage | 1899 | June | S | 82.7 | 1 |
| <i>h</i> Carpenter, Guy Sexton | 1899 | June | S | 95.7 | 1 |
| Creighton, Sally Robinson | 1899 | June | S | 83.5 | 1 |
| Grove, Robert Kellogg | 1899 | June | S | 88.1 | 1 |
| Hatton, Julia Elizabeth | 1899 | June | S | 85.7 | 1 |
| Hawley, George Waller | 1899 | June | S | 84.4 | 1 |
| Hirschman, Leopold M. | 1899 | June | S | 83.8 | 1 |
| Hoffman, Isaiah Louis | 1899 | June | S | 84 | 1 |
| Jones, William Joseph, jr. | 1899 | June | S | 85.7 | 1 |
| <i>h</i> Keays, Frederick Love | 1899 | June | S | 91.2 | 1 |
| Kleinman, Morris | 1899 | June | S | 86.7 | 1 |
| Levy, William | 1899 | June | S | 82.7 | 1 |
| Polk, John Metcalfe | 1899 | June | S | 88 | 1 |
| <i>h</i> Scott, Richard John Ernst | 1899 | June | S | 90.4 | 1 |
| Scudder, Ida S | 1899 | June | S | 86.8 | 1 |
| Senftner, Herman Francis | 1899 | June | S | 85.2 | 1 |
| Shoales, Walter A. | 1899 | June | S | 88.2 | 1 |
| <i>h</i> Shutt, Margaret Taylor | 1899 | June | S | 91.2 | 1 |
| Southerland, Susan George | 1899 | June | S | 84 | 1 |
| Tallman, John Harold | 1899 | June | S | 86.4 | 1 |
| Tustin, Ruth | 1899 | June | S | 85.4 | 1 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|---|--------------------|---------------------|-------|-----------------|---------------|
| <i>New York—New York eclectic medical college</i> | | | | | |
| Froelich, Robert Philip..... | 1898 | Jan. | E | 87.4 | 1 |
| Fussilli, Concezio Luigi..... | 1897 | Jan. | E | 90.8 | 1 |
| Failed..... | 1881 | June | E | 86 | 1 |
| Graf, Charles Burich..... | 1899 | June | E | 96.5 | 2 |
| Grossi, Giovanni..... | 1899 | May | E | 82.4 | 1 |
| Hasson, John Edward..... | 1899 | May | E | 91 | 1 |
| Hayes, Joseph Augustin..... | 1899 | May | E | 87.1 | 1 |
| Jäger, Philip..... | 1899 | May | E | 85.6 | 1 |
| Failed..... | 1899 | June | E | 79.4 | 1 |
| Pearlstien, Maurice Barrett..... | 1899 | May | E | 86.8 | 1 |
| Rosenthal, Aaron Eruchim..... | 1899 | May | E | 94 | 1 |
| Schultz, Simon Robert..... | 1899 | May | E | 91.2 | 1 |
| Stoesser, Henry..... | 1898 | Jan. | E | 81.7 | 8 |
| Terwilliger, Frederick..... | 1899 | May | E | 88.4 | 1 |
| Van Horn, John J..... | 1898 | Ap. | E | 80.8 | 1 |
| Von Forckenbeck, Alfred..... | 1899 | May | E | 84.4 | 1 |
| Willis, Lillian Alice..... | 1899 | May | E | 84.4 | 1 |
| Wolff, Alexander..... | 1899 | May | E | 88.5 | 1 |
| <i>Long Island college hospital</i> | | | | | |
| Anderson, Alexander Locke..... | 1898 | Jan. | S | 89.1 | 1 |
| Beatty, George Wesley..... | 1898 | Sep. | S | 84.6 | 1 |
| Bell, Henry Edwin..... | 1898 | Sep. | S | 80.1 | 2 |
| Bowerman, William Gurney..... | 1897 | Jan. | S | 88.8 | 1 |
| Brennan, James Henry..... | 1898 | June | S | 82.7 | 1 |
| Briggs, Robert Truman..... | 1898 | Jan. | S | 80.6 | 1 |
| Burke, Francis Timothy..... | 1898 | Sep. | S | 84.8 | 1 |
| Campbell, Walter Joseph..... | 1899 | June | S | 88.2 | 1 |
| Clark, George Armon..... | 1898 | May | S | 85.7 | 1 |
| Cohen, Louis Lippmann..... | 1898 | May | S | 79.2 | 5 |
| Cooper, Robert Lee..... | 1899 | June | S | 80.1 | 1 |
| de Lorme, Louis..... | 1899 | June | S | 88.5 | 1 |
| Demby, Alexander..... | 1899 | June | S | 78 | 1 |
| h Douglass, Adelbert Chittenden..... | 1899 | June | S | 91.7 | 1 |
| Failed..... | 1896 | Jan. | S | 74.1 | 1 |
| h Fincke, Charles Louis..... | 1899 | June | S | 94.8 | 1 |
| Folger, Rupert..... | 1898 | Jan. | S | 84.4 | 1 |
| Fry, Herbert Charles..... | 1895 | May | S | 82.5 | 8 |
| Fuchs, Otto..... | 1899 | June | S | 81.8 | 1 |
| Gallagher, Joseph Henry..... | 1898 | Ap. | S | 81.8 | 2 |
| Gardiner, Charles Edward..... | 1899 | June | S | 84.5 | 1 |
| Greene, Junia Ingraham..... | 1899 | June | S | 85.7 | 1 |
| Hall, Edward William..... | 1897 | Ap. | S | 77.6 | 2 |
| Failed..... | 1898 | May | S | 61.6 | 2 |
| Hatfield, Frank Proal..... | 1899 | June | S | 84.5 | 1 |
| Hill, Harry Aloysius..... | 1898 | Sep. | S | 83.6 | 1 |
| Failed..... | 1899 | June | S | 80 | 1 |
| Keller, Frank Joseph..... | 1899 | June | S | 86 | 1 |
| King, Frank Albert..... | 1899 | June | S | 77.2 | 1 |
| Kingman, Robert..... | 1899 | June | S | 90 | 1 |
| Kingsbury, William Payson..... | 1898 | June | S | 79.1 | 1 |
| h Koempel, Ludwig..... | 1899 | June | S | 93.2 | 1 |
| Failed..... | 1896 | June | S | 77.1 | 4 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|--|--------------------|---------------------|-----------------|-----------------|---------------|
| New York—Long Island coll. hosp. (cont'd) | | | | | |
| Langdon, Robert Macdermott..... | 1898 | June | S | 78.2 | 1 |
| Loewinthan, Max..... | 1898 | May | S | 77.6 | 1 |
| Failed..... | 1899 | June | S | 74.1 | 1 |
| Lyons, John James..... | 1898 | Ap. | S | 80.1 | 1 |
| McAveney, William Joseph..... | 1898 | Jan. | S | 80.6 | 2 |
| Failed..... | 1898 | June | S | 73.1 | 2 |
| McCollum, Lucian Rufus..... | 1898 | Jan. | S | 82.1 | 1 |
| McCreedy, James Aloysius..... | 1899 | June | S | 80.2 | 1 |
| Malament, Manasseh John..... | 1898 | Sep. | S | 87.1 | 1 |
| Mildenberg, Victor..... | 1898 | Jan. | S | 89.4 | 1 |
| Munson, Forbes James..... | 1897 | Ap. | S | 81.9 | 2 |
| Newburger, Joseph Bazalel..... | 1899 | June | S | 81.8 | 1 |
| Northridge, Augustus Pearce..... | 1899 | June | S | 85.5 | 1 |
| Ohly, John Henry..... | 1899 | June | S | 87.7 | 1 |
| Oliver, James..... | 1898 | Ap. | S | 79.4 | 3 |
| Petersen, Christian Edward..... | 1897 | Sep. | S | 79.2 | 4 |
| Piquet, Samuel David..... | 1899 | June | S | 83.7 | 1 |
| Pool, Charles Scudder..... | 1899 | June | S | 85.4 | 1 |
| Pursell, Francis John..... | 1899 | June | S | 86 | 1 |
| Rathbun, James Louis..... | 1899 | June | S | 84.7 | 1 |
| Failed..... | 1897 | Ap. | S | 63.8 | 4 |
| Rogers, Hugh Edward..... | 1898 | Jan. | S | 85.4 | 1 |
| Rowan, John Patrick..... | 1898 | Jan. | S | 79.4 | 1 |
| Schroeder, Henry John Louis..... | 1898 | Jan. | S | 79.8 | 2 |
| Seeley, Howard Jackson..... | 1899 | June | S | 88.7 | 1 |
| Segelcke, Theodore Ferdinand..... | 1898 | June | S | 78.7 | 1 |
| Shields, William John, jr..... | 1897 | Sep. | S | 79.7 | 3 |
| Slee, Arthur Waller..... | 1899 | June | S | 88 | 1 |
| Smith, Earl Rutter..... | 1898 | Jan. | S | 80.7 | 2 |
| Smith, George Albert Hayes..... | 1898 | Sep. | S | 81 | 2 |
| Smith, George Henry, jr..... | 1898 | Sep. | S | 84 | 2 |
| Snell, Howard Bayard..... | 1899 | June | S | 89.7 | 1 |
| Sohmer, Alphonse Edward John..... | 1899 | June | S | 91.5 | 1 |
| Stivers, George Lincoln..... | 1899 | June | S | 86.4 | 1 |
| Swan, Eugene La Forrest..... | 1898 | Jan. | S | 84.4 | 2 |
| Tag, Charles Henry..... | 1898 | Jan. | S | 79.4 | 2 |
| Failed..... | 1897 | June | Ex ^a | 81.3 | 2 |
| Tieck, Gustav John Ehrich..... | 1899 | June | S | 82.1 | 1 |
| Walling, Charles Wilbur..... | 1899 | June | S | 85.7 | 1 |
| Walsh, Charles F. A..... | 1895 | Sep. | S | 83.1 | 2 |
| Walsh, Joseph William..... | 1897 | Sep. | S | 79.8 | 2 |
| Winder, Guthrie Rider..... | 1898 | Jan. | S | 82.6 | 2 |
| Winter, Everett Herschell..... | 1899 | June | S | 81 | 1 |
| Wright, Justus Gaige..... | 1899 | June | S | 80.2 | 1 |
| N. Y. homeopathic med. coll. and hosp. | | | | | |
| Augustin, George William, jr..... | 1899 | May | H | 91.4 | 1 |
| Austin, Alonzo Eugene..... | 1897 | Jan. | H | 81.4 | 2 |
| Blakeman, John Le Roy..... | 1899 | June | H | 87.5 | 1 |
| Buchanan, Thomas Drysdale..... | 1897 | Sep. | H | 87.1 | 2 |
| Burt, James Edward..... | 1899 | June | H | 88.3 | 1 |
| h Clark, Albert Boone..... | 1899 | May | H | 99.1 | 1 |
| Clark, Charles Cleveland..... | 1898 | Sep. | H | 90.2 | 1 |

^a First examination taken before state board.

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|---|--------------------|---------------------|-------|-----------------|---------------|
| New York—N. Y. homeopathic medical college and hospital (cont'd) | | | | | |
| Datesman, Hiram Ferdinand | 1899 | May | H | 84.8 | 1 |
| h Decker, James Windsor | 1898 | May | H | 90.8 | 1 |
| Durrin, William C | 1899 | May | H | 88.9 | 1 |
| Everett, Edward Alfred | 1897 | Sep. | H | 81.4 | 1 |
| Goodrich, Frederick Warren | 1898 | May | H | 86.4 | 1 |
| Hayward, Abner | 1899 | June | H | 89.5 | 1 |
| h Hopke, Francis Edward William | 1899 | May | H | 98.4 | 1 |
| h House, Wallace Belding | 1899 | May | H | 97.8 | 1 |
| h Irish, James Herbert | 1899 | June | H | 94.8 | 1 |
| Irwin, Frederick C. | 1898 | Jan. | H | 85.5 | 2 |
| Kaiser, William Benjamin | 1897 | Sep. | H | 85.2 | 1 |
| h King, George Suttie | 1899 | May | H | 97.5 | 1 |
| h Lawrence, William Tilden | 1899 | May | H | 95.4 | 1 |
| h Lewis, Thomas Park | 1899 | June | H | 94.6 | 1 |
| Marshall, Bertram Edwin | 1899 | May | H | 93.4 | 1 |
| h Post, Walter | 1899 | May | H | 97.6 | 1 |
| h Reed, Mark Eugene | 1898 | June | H | 96.8 | 1 |
| h Ricardo, James Nelson | 1899 | May | H | 98.5 | 1 |
| Schwilk, Elisha T. | 1899 | May | H | 90.4 | 1 |
| Seward, Frederick W. | 1898 | May | H | 84 | 5 |
| Shepard, Hiland George | 1898 | May | H | 90.1 | 1 |
| h Thomas, Philip Cook | 1899 | May | H | 94.5 | 1 |
| h Turner, Reeve | 1899 | May | H | 96.5 | 1 |
| Willis, George Stuart | 1899 | May | H | 92.6 | 1 |
| Medical college and hospital for women | | | | | |
| Failed | 1899 | June | H | 87 | 1 |
| Hertz, Sue Emma | 1899 | June | H | 86 | 1 |
| Klein, Anna Katherine | 1899 | May | H | 89.2 | 1 |
| Failed | 1899 | June | H | 91 | 1 |
| Potter, Mary Emma | 1899 | June | H | 98 | 1 |
| Niagara university, medical department | | | | | |
| Brennan, Albert Edward | 1898 | June | S | 84.4 | 1 |
| Syracuse university, medical department | | | | | |
| Brandow, Clinton Tompson | 1898 | Ap. | S | 85.4 | 1 |
| Failed | 1899 | June | S | 85.8 | 1 |
| Jones, Lucy Criddle | 1898 | Sep. | S | 83.7 | 2 |
| Mullin, Charles | 1898 | Sep. | S | 84.7 | 1 |
| Murray, Eugene Wilson | 1898 | May | S | 79 | 2 |
| Ryan, Francis Joseph | 1899 | June | S | 80.5 | 1 |
| Shanahan, William Thomas | 1898 | June | S | 87.5 | 1 |
| Watkins, Albert Greenleaf | 1899 | Jan. | S | 88.4 | 1 |
| Wetmore, Warren Lawton | 1895 | Jan. | S | 83.7 | 2 |
| Wilcox, Ralph Allen | 1899 | Jan. | S | 85.6 | 1 |
| University of Buffalo, medical department | | | | | |
| Failed | 1899 | June | S | 87.1 | 1 |
| Allan, Alexander | 1898 | Jan. | S | 84 | 2 |
| Bachman, William W | 1899 | June | S | 79.1 | 1 |
| Baker, Samuel B. | 1899 | May | S | 87.7 | 1 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|--|--------------------|---------------------|-------|-----------------|---------------|
| New York.—Univ. of Buff., med. dep't (cont'd) | | | | | |
| Beyer, Louis J..... | 1899 | May | S | 89.1 | 1 |
| Bingham, Frank Parker..... | 1899 | May | S | 85.9 | 1 |
| Brodie, Avery Kirk..... | 1899 | May | S | 84.1 | 1 |
| De Ceu, Robert Edward..... | 1899 | May | S | 87.1 | 1 |
| Downey, Martin Joseph..... | 1899 | May | S | 89.1 | 1 |
| Eckerson, J. Fred..... | 1899 | May | S | 89.9 | 1 |
| Fiegel, Frank X..... | 1899 | May | S | 89.7 | 1 |
| Glasgow, John Robert Bruce..... | 1898 | Sep. | S | 82.5 | 2 |
| Gould, James Phineas Goldfarb..... | 1899 | May | S | 88.4 | 1 |
| Gould, Richard J..... | 1898 | Sep. | S | 84.9 | 1 |
| Grantier, William Walter..... | 1899 | June | S | 79.7 | 1 |
| Groess, Edward Lewis..... | 1898 | May | S | 80.6 | 19 |
| Hoag, Myrtle Anna..... | 1899 | May | S | 89.9 | 1 |
| Jennings, Mary Louise..... | 1899 | May | S | 84.4 | 1 |
| Failed..... | 1898 | May | S | 77.8 | 1 |
| Jones, John N..... | 1898 | Sep. | S | 79.1 | 1 |
| Failed..... | 1899 | June | S | 80 | 1 |
| Killip, Thomas Arthur..... | 1898 | June | S | 83.1 | 1 |
| Lattin, Frank H..... | 1899 | May | S | 87.7 | 1 |
| Lester, Garra K..... | 1899 | May | S | 90.6 | 1 |
| Lichtenberg, Caroline..... | 1898 | Sep. | S | 85 | 1 |
| h Livermore, Ira W..... | 1899 | May | S | 93.6 | 1 |
| McCarthy, Arthur..... | 1899 | May | S | 90.3 | 1 |
| McKenney, Frederick Baker..... | 1898 | Sep. | S | 85.4 | 1 |
| Maynard, Howard A..... | 1898 | June | S | 89 | 1 |
| Mills, George Francis..... | 1899 | May | S | 79.6 | 1 |
| North, Charles H..... | 1898 | May | S | 90.4 | 1 |
| O'Gorman, Francis Michael..... | 1899 | May | S | 88 | 1 |
| Pettee, William Nelson..... | 1899 | May | S | 87.4 | 1 |
| Riester, Julian Arthur..... | 1899 | May | S | 82.4 | 1 |
| Roosa, Charles Compton..... | 1899 | May | S | 90.1 | 1 |
| Failed..... | 1899 | June | S | 75.8 | 1 |
| Saylin, Isaac..... | 1899 | May | S | 87.6 | 1 |
| Spengler, John Arthur..... | 1899 | May | S | 90.7 | 1 |
| Staniland, George S..... | 1899 | May | S | 85 | 1 |
| Strong, Rae Latham..... | 1899 | May | S | 82.3 | 1 |
| h Thornton, William Irving..... | 1899 | May | S | 90.4 | 1 |
| Failed..... | 1895 | Sep. | S | 72.6 | 6 |
| Zittel, Alfred Frederick..... | 1899 | June | S | 84.8 | 1 |
| New York university, medical department | | | | | |
| Baker, Raymond L..... | 1898 | June | S | 88.4 | 1 |
| Barry, Thomas Elias..... | 1897 | Ap. | S | 82.1 | 2 |
| Bergin, Joseph Vincent..... | 1898 | June | S | 81.4 | 1 |
| Blan, Horace Bernard..... | 1898 | Sep. | S | 80.5 | 2 |
| Bogen, Louis Isaac..... | 1898 | Sep. | S | 83.6 | 1 |
| Campbell, William Maxwell..... | 1898 | June | S | 84.7 | 1 |
| h Card, John Alling..... | 1898 | Sep. | S | 91 | 1 |
| Corwin, Arthur Sherwood..... | 1898 | May | S | 86.8 | 1 |
| Failed..... | 1897 | Sep. | S | 70.1 | 2 |
| Failed..... | 1898 | June | S | 82.5 | 1 |
| Feldmann, Abraham..... | 1898 | Sep. | S | 81.4 | 2 |
| Goldsmith, George E..... | 1898 | Sep. | S | 82.2 | 2 |
| Goodson, Marcus..... | 1896 | Ap. | S | 84.9 | 1 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|---|--------------------|---------------------|-------|-----------------|---------------|
| New York—N. Y. univ., med. dep't (cont'd) | | | | | |
| Greenfield, Bernard Harold..... | 1898 | Sep. | S | 86.8 | 2 |
| Holland, John..... | 1898 | Sep. | S | 88.6 | 1 |
| Kopf, Joseph Benjamin..... | 1898 | Jan. | S | 80.3 | 1 |
| Korngut, Samuel..... | 1898 | Sep. | S | 81.9 | 1 |
| Levine, Leopold Ellsworth..... | 1898 | Sep. | S | 84.8 | 2 |
| Lewis, Stewart..... | 1897 | May | S | 88.9 | 1 |
| Failed..... | 1895 | June | S | 65.2 | 1 |
| MacAlpine, Kenneth Keith..... | 1896 | Ap. | S | 80.1 | 2 |
| Failed..... | 1898 | Jan. | S | 70.6 | 1 |
| Moore, James Basil..... | 1895 | Sep. | S | 77.9 | 3 |
| Morrison, Daniel Livingston..... | 1897 | Ap. | S | 82.6 | 1 |
| Muller, Henry William..... | 1898 | Sep. | S | 85.7 | 1 |
| Mundorff, George Theodore..... | 1895 | Jan. | S | 83.6 | 1 |
| Newbury, Nelson Edwards..... | 1897 | Sep. | S | 79.2 | 2 |
| Failed..... | 1897 | June | S | 83.8 | 1 |
| O'Donnell, Bernard Leo..... | 1898 | Jan. | S | 82.7 | 1 |
| Pender, George Edward..... | 1897 | Sep. | S | 81.5 | 2 |
| Randall, Edwin Thompson..... | 1898 | Sep. | S | 81.8 | 1 |
| Rosenthal, Louis..... | 1898 | Sep. | S | 83.8 | 2 |
| Rubino, Isaac Max..... | 1898 | Sep. | S | 88.9 | 1 |
| Schmid, Henry..... | 1895 | Sep. | S | 81.7 | 6 |
| Slawson, John Cresswell..... | 1898 | Jan. | S | 88.4 | 1 |
| Snowden, Fred Alexander..... | 1898 | May | S | 90.4 | 1 |
| Stewart, Robert..... | 1898 | Jan. | S | 80.1 | 2 |
| Wickes, George Lewis..... | 1896 | Jan. | S | 89.9 | 1 |
| Yates, David Gilbert..... | 1898 | Sep. | S | 91.1 | 1 |
| Zenneck, Julius Frederic..... | 1898 | Sep. | S | 89.7 | 1 |
| Zippert, Isidor..... | 1898 | June | S | 84 | 1 |
| University and Bellevue hospital medical coll. | | | | | |
| h Adams, Sanford William..... | 1899 | June | S | 94.1 | 1 |
| Baker, Raymond Dwight..... | 1899 | May | S | 91.1 | 1 |
| Bell, Charles Thaddeus..... | 1899 | June | S | 91.2 | 1 |
| Bisher, Peter Manel..... | 1899 | May | S | 87.8 | 1 |
| Bodecker, Henry William Charles..... | 1899 | May | S | 92.7 | 1 |
| Budlong, Lewis Stanley..... | 1899 | June | S | 86.2 | 1 |
| Burns, James Edward..... | 1899 | June | S | 85.2 | 1 |
| Close, George Hastings..... | 1899 | June | S | 90.2 | 1 |
| Dooley, Edward Augustine..... | 1899 | June | S | 78.8 | 1 |
| Edgerly, Josiah Winslow..... | 1899 | June | S | 82.4 | 1 |
| Edwards, David..... | 1899 | May | S | 86 | 1 |
| Ehlers, Edward Cargill..... | 1899 | June | S | 78.5 | 1 |
| Eichler, Philip..... | 1899 | May | S | 90.7 | 1 |
| Frankel, Meyer..... | 1899 | May | S | 87.1 | 1 |
| Freiberger, Leopold..... | 1899 | June | S | 87.7 | 1 |
| Garrison, Frank Otis..... | 1899 | June | S | 80.4 | 1 |
| Greenbaum, Samuel William..... | 1899 | June | S | 81.7 | 1 |
| Greenstein, Harry..... | 1899 | June | S | 87 | 1 |
| Gibbon, Henry Alex..... | 1899 | June | S | 86.5 | 1 |
| Hawley, George, jr..... | 1899 | June | S | 84.4 | 1 |
| Horowitz, Max..... | 1899 | June | S | 83.8 | 1 |
| Hough, Perry Bartlette..... | 1899 | May | S | 89.3 | 1 |
| Imperator, Charles Johnstone..... | 1899 | June | S | 87.7 | 1 |
| Irish, Robert Liston..... | 1899 | May | S | 86.6 | 1 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|---|--------------------|---------------------|-------|-----------------|---------------|
| New York—University and Bellevue hospital medical college (cont'd) | | | | | |
| Kathan, Dudley Rohnan..... | 1899 | May | S | 87.4 | 1 |
| Khodoff, Jacob David..... | 1899 | June | S | 85.1 | 1 |
| Krueger, Max Gustav Emil..... | 1899 | May | S | 88.7 | 1 |
| Krumholz, Sigmund..... | 1899 | June | S | 79.7 | 1 |
| Lingenfelter, Howard Andrew..... | 1899 | June | S | 84.7 | 1 |
| Little, George Richard..... | 1899 | June | S | 88.1 | 1 |
| Lucey, Denis..... | 1899 | May | S | 88.1 | 1 |
| McBride, Bernard..... | 1899 | June | S | 82.5 | 1 |
| h Morris, Edward Joseph..... | 1899 | June | S | 92.2 | 1 |
| h Mufarrij, Ibrahim Isaac..... | 1899 | June | S | 90 | 1 |
| Mulholland, Walter Howard..... | 1899 | June | S | 81.7 | 1 |
| Failed..... | 1899 | June | S | 86.5 | 1 |
| O'Grady, Cornelius Edward..... | 1899 | June | S | 88 | 1 |
| O'Neil, Daniel Charles..... | 1899 | May | S | 91.9 | 1 |
| O'Shaughnessy, Edmund J..... | 1899 | June | S | 86.8 | 1 |
| Phillips, Bruce Gretton..... | 1899 | May | S | 91.1 | 1 |
| Quin, Vincent Edward..... | 1899 | June | S | 86.4 | 1 |
| Rieser, Willy..... | 1899 | June | S | 86.1 | 1 |
| Schneider, Samuel..... | 1899 | May | S | 83.9 | 1 |
| h Schoen, Adolph..... | 1899 | June | S | 94.1 | 1 |
| Seufert, George John..... | 1899 | May | S | 88.1 | 1 |
| Sharfin, Zelik..... | 1899 | June | S | 85.1 | 1 |
| Failed..... | 1899 | May | S | 84.2 | 1 |
| Smith, Angelo John..... | 1899 | June | S | 88.5 | 1 |
| Smith, Herbert Beekman..... | 1899 | May | S | 87.7 | 1 |
| h Sturge, Edgar..... | 1899 | May | S | 95.3 | 1 |
| h Swan, George Francis..... | 1899 | May | S | 93.7 | 1 |
| Failed..... | 1899 | June | S | 76.5 | 1 |
| Tice, Harry Bower..... | 1899 | June | S | 89.8 | 1 |
| Van Wagenen, Herbert Jephtha..... | 1899 | May | S | 88.7 | 1 |
| Wallfield, Jacob Mark..... | 1899 | May | S | 87.4 | 1 |
| Walter, Edward Adolph..... | 1899 | June | S | 84.7 | 1 |
| Weiss, Leopold David..... | 1899 | June | S | 86 | 1 |
| White, John Joseph..... | 1899 | June | S | 82 | 1 |
| h Whitney, Chester Field Smith..... | 1899 | May | S | 92.4 | 1 |
| Whynman, Boris..... | 1899 | June | S | 80.8 | 1 |
| Wittenberg, Joseph..... | 1899 | June | S | 88.1 | 1 |
| Woman's medical coll. of New York infirmary | | | | | |
| Appleton, Mary..... | 1899 | June | S | 87.2 | 1 |
| Barber, Annetta E..... | 1898 | Jan. | S | 83 | 2 |
| Edwards, Sarah Mary..... | 1899 | June | S | 90 | 1 |
| Fielding, Roberta Lee..... | 1898 | Sep. | S | 84.6 | 1 |
| Gignoux, Harriet Adèle..... | 1899 | June | S | 87.2 | 1 |
| Harris, Jane Howell..... | 1899 | June | S | 89.5 | 1 |
| Ketring, Mary..... | 1899 | June | S | 87.4 | 1 |
| h Madison, Augusta Morris..... | 1899 | June | S | 91.8 | 1 |
| Miller, Maud..... | 1899 | June | S | 85.7 | 1 |
| Failed..... | 1899 | June | S | 68 | 1 |
| Rees, Annie Ceridwen..... | 1898 | Sep. | S | 80.8 | 2 |
| Failed..... | 1899 | June | S | 84.6 | 1 |
| Vedin, Alma..... | 1899 | June | S | 84.7 | 1 |
| Youmans, Alice Catharine..... | 1899 | June | S | 80.4 | 1 |

Physicians licensed at examinations, etc. (*continued*)

Schools in other states

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|---|--------------------|---------------------|-------|-----------------|---------------|
| California | | | | | |
| <i>Hahnemann hospital college</i> | | | | | |
| Künstlich, David..... | 1894 | Jan. | H | 84.2 | 4 |
| <i>University of California</i> | | | | | |
| Waller, Newton Booth..... | 1896 | Ap. | S | 84.1 | 1 |
| Connecticut | | | | | |
| <i>Yale university, med. dep't</i> | | | | | |
| Bunting, Philip Du Bois..... | 1898 | Sep. | S | 90 | 1 |
| Cowles, Frederic Stanley..... | 1898 | June | S | 86.2 | 1 |
| Graves, Richard Stayner..... | 1897 | Jan. | S | 88.6 | 1 |
| Herrity, John Edward..... | 1897 | June | S | 90.4 | 1 |
| Hulseberg, Frederick Walter..... | 1898 | Sep. | S | 79.1 | 1 |
| Lee, John Aloysius..... | 1897 | Jan. | S | 85.3 | 1 |
| Robbins, George Orrin..... | 1879 | Ap. | S | 79.9 | 1 |
| Sherwood, Milton See..... | 1898 | June | S | 84 | 1 |
| Todd, Francis Harrison..... | 1897 | Jan. | S | 82.7 | 1 |
| Watson, Harry Goldsborough..... | 1898 | Jan. | S | 87.6 | 1 |
| h Woodruff, Stanley Rogers..... | 1897 | Jan. | S | 92 | 1 |
| District of Columbia | | | | | |
| <i>Columbian university, Washington</i> | | | | | |
| Clemons, Carl Anson..... | 1898 | Ap. | S | 85.6 | 1 |
| Stanton, Lemuel Joseph..... | 1894 | Sep. | S | 86.6 | 1 |
| <i>Howard university</i> | | | | | |
| Russell, York..... | 1898 | May | S | 79.2 | 2 |
| Georgia | | | | | |
| <i>Atlanta medical college</i> | | | | | |
| Harrington, Alfred Flourney..... | 1892 | Ap. | S | 84.3 | 1 |
| <i>Georgia college of eclectic medicine and surgery</i> | | | | | |
| Failed..... | 1888 | Sep. | E | 77.7 | 1 |
| <i>University of Georgia</i> | | | | | |
| Glass, Richard Bryon..... | 1887 | Ap. | S | 84.7 | 1 |
| Marsh, Milton Jay..... | 1899 | May | S | 82.6 | 1 |
| Illinois | | | | | |
| <i>Chicago homeopathic medical college</i> | | | | | |
| Failed..... | 1899 | June | H | 85.1 | 1 |
| Failed..... | 1895 | Sep. | H | 67.4 | 1 |
| h Clapp, Charles Ross..... | 1887 | Sep. | H | 97.1 | 1 |
| Failed..... | 1894 | June | H | 81.2 | 2 |
| <i>College of physicians and surgeons, Chicago</i> | | | | | |
| Anderson, Perry L..... | 1886 | Jan. | S | 88.7 | 2 |
| Bonner, Adolph..... | 1896 | Ap. | S | 82 | 3 |
| Failed..... | 1898 | June | S | 76.5 | 2 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|--|--------------------|---------------------|-------|-----------------|---------------|
| Illinois—Dunham medical college, Chicago | | | | | |
| Winkler, Rose | 1898 | Sep. | H | 84.8 | 2 |
| Zimmerman, Florence Dorothea..... | 1898 | Sep. | H | 85 | 1 |
| Hering medical college, Chicago | | | | | |
| Failed..... | 1898 | June | H | 87.9 | 1 |
| Keese, John Mumford..... | 1898 | Sep. | H | 87.1 | 2 |
| Illinois medical college | | | | | |
| Miller, Albert..... | 1898 | Ap. | S | 85.8 | 2 |
| Northwestern university, Chicago | | | | | |
| Mac Arthur, Charlotte B..... | 1897 | Sep. | S | 85.4 | 1 |
| Stow, Bond | 1899 | Jan. | S | 88 | 1 |
| Woolsey, Frank Mahlon | 1899 | June | S | 84.4 | 1 |
| Iowa | | | | | |
| College of physicians and surgeons, Keokuk | | | | | |
| Failed... .. | 1875 | June | S | 57.7 | 1 |
| Kansas | | | | | |
| College of physicians and surgeons, Kansas City | | | | | |
| Lewis, George Marshall..... | 1898 | Sep. | S | 82.1 | 2 |
| Kansas medical college | | | | | |
| a | 1894 | Sep. | S | 85.9 | 1 |
| Kentucky | | | | | |
| Kentucky school of medicine | | | | | |
| Failed..... | 1892 | June | S | 71 | 1 |
| University of Louisville | | | | | |
| Davis, Willis Oscar..... | 1895 | Sep. | S | 79.2 | 6 |
| Maine | | | | | |
| Bowdoin medical college | | | | | |
| Failed..... | 1898 | June | S | 83.8 | 1 |
| O'Brien, Dennis Joseph..... | 1897 | Sep. | S | 83.6 | 1 |
| Maine medical college | | | | | |
| Trueman, Thompson Joseph | 1883 | May | S | 76.7 | 1 |
| Maryland | | | | | |
| Baltimore medical college | | | | | |
| Clark, George Sidney..... | 1897 | Sep. | S | 86 | 1 |
| Fleisch, Oscar..... | 1897 | Ap. | S | 79.5 | 3 |
| Huse, Velmore..... | 1898 | Sep. | S | 79.8 | 2 |
| McGovern, James Thomas..... | 1898 | Jan. | S | 82 | 3 |
| Palmer, Clarence Alanson | 1895 | June | S | 80.5 | 2 |
| Probasco, Luther Green..... | 1898 | Sep. | S | 83 | 2 |
| Failed... .. | 1896 | May | S | 76 | 5 |
| Stiles, Archibald Wilson | 1897 | Jan. | S | 86 | 3 |
| Failed..... | 1897 | June | S | 83.3 | 1 |

a Requirements not yet fully met.

Physicians licensed at examinations, etc. (*continued*)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|--|--------------------|---------------------|-------|-----------------|---------------|
| Maryland—Baltimore univ., school of med. | | | | | |
| Adler, Julius | 1898 | Jan. | S | 78.7 | 2 |
| Anderson, George | 1898 | Jan. | S | 88 | 1 |
| Berger, Maurice M | 1898 | Sep. | S | 79.4 | 1 |
| Goldberg, Henry | 1898 | Sep. | S | 81.6 | 1 |
| Goodfried, Ignatius L | 1898 | Sep. | S | 85.8 | 1 |
| Grabenstein, Joseph | 1898 | May | S | 79.4 | 8 |
| Failed | 1897 | Sep. | S | 77.6 | 1 |
| Hirsch, Samuel | 1898 | June | S | 80.1 | 5 |
| Hirschmann, David | 1896 | Jan. | S | 84.1 | 8 |
| Janko, Nehemiah | 1898 | Ap. | S | 80.1 | 8 |
| McGinness, Robert Francis | 1898 | Jan. | S | 84.4 | 1 |
| Perilli, John William | 1898 | Sep. | S | 82.4 | 8 |
| Teller, Howard J | 1898 | Ap. | S | 79.4 | 2 |
| College of physicians and surgeons, Baltimore | | | | | |
| h Babcock, Warren La Verne | 1898 | Ap. | S | 94 | 1 |
| Failed | 1887 | Jan. | S | 71.7 | 1 |
| Frame, Herbert J | 1896 | Jan. | S | 80.7 | 8 |
| Failed | 1884 | June | S | 81.6 | 1 |
| Johns Hopkins university, Baltimore | | | | | |
| h Coe, John Williams | 1898 | Sep. | S | 98.9 | 1 |
| h Knox, James Hall Mason jr. | 1898 | June | S | 93.5 | 1 |
| h Lyon, Irving Phillips | 1897 | Sep. | S | 92.6 | 1 |
| Walker Emma Elizabeth | 1898 | Jan. | S | 88.8 | 1 |
| University of Maryland | | | | | |
| Seton, Willam Henry | 1898 | Ap. | S | 87 | 1 |
| Woman's medical college, Baltimore | | | | | |
| Jaques, J. Eugenia | 1897 | Sep. | S | 87.7 | 1 |
| Massachusetts | | | | | |
| Boston university, school of medicine | | | | | |
| Davis, Anna Belle | 1898 | Jan. | H | 91.6 | 1 |
| Donnelly, James Harvey | 1897 | Ap. | H | 91.8 | 1 |
| h Lowe, Evelyn Ellen Annie | 1897 | Sep. | H | 93.2 | 1 |
| Robinson, Mary Emma Bliss | 1897 | Sep. | H | 89.8 | 1 |
| Sisson, Mabel Cornelia | 1899 | June | H | 88.6 | 1 |
| College of physicians and surgeons, Boston | | | | | |
| Dort, Elizabeth | 1899 | June | S | 82.2 | 1 |
| Harvard medical school | | | | | |
| Chapin, Alva Le Roy | 1894 | May | S | 82.6 | 1 |
| Flint, Carleton Phillips | 1896 | May | S | 84.6 | 1 |
| Johnson, Grahame Dove | 1896 | Jan. | S | 88.8 | 1 |
| Louis, Isaac | 1885 | June | S | 84.1 | 1 |
| Newell, Otis Kimball | 1882 | Jan. | S | 81 | 1 |
| Tufts medical school, Boston | | | | | |
| Failed | 1895 | Sep. | S | 73.7 | 1 |
| Miller, Helen Rabinovich | 1894 | Sep. | S | 80 | 8 |
| Shisler, William Henry | 1897 | May | S | 81.7 | 2 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|--|--------------------|---------------------|-------|-----------------|---------------|
| Michigan | | | | | |
| <i>University of Michigan</i> | | | | | |
| Borden, Allen Louis..... | 1896 | Jan. | S | 87.6 | 1 |
| Clark, Clarence George..... | 1899 | June | S | 88.2 | 1 |
| Diefendorf, Fred Strayer..... | 1898 | Sep. | S | 87.8 | 1 |
| Failed..... | 1884 | Sep. | S | 77.4 | 1 |
| Flett, Penelope McNaughton..... | 1896 | June | S | 81.4 | 3 |
| King, Le Roy Wendell..... | 1899 | June | S | 83.8 | 1 |
| Locke, Anna Willard..... | 1897 | Ap. | S | 88.6 | 1 |
| h Phillips, Carlin..... | 1897 | Ap. | S | 92.1 | 1 |
| Warren, Walter Miller..... | 1898 | Jan. | S | 89 | 1 |
| Young, Carrie Jane..... | 1897 | Sep. | S | 85.1 | 1 |
| Minnesota | | | | | |
| <i>University of Minnesota</i> | | | | | |
| Birdsall, Albert Thornton..... | 1896 | Jan. | S | 86 | 1 |
| Missouri | | | | | |
| <i>Beaumont hospital medical college, St Louis</i> | | | | | |
| Douglass, William Chester..... | 1894 | June | S | 80.1 | 4 |
| <i>Missouri medical college</i> | | | | | |
| Goodman, Henry Louis..... | 1892 | Sep. | S | 82.1 | 1 |
| New Hampshire | | | | | |
| <i>Dartmouth medical college</i> | | | | | |
| McLaury, Daniel Henry..... | 1898 | Ap. | S | 81.6 | 1 |
| Zeiser, Charles Henry Bernard..... | 1895 | June | S | 80.4 | 2 |
| Ohio | | | | | |
| <i>Cleveland homeopathic medical college</i> | | | | | |
| Failed..... | 1898 | Jan. | H | 69.4 | 2 |
| Mount, Garry..... | 1899 | May | H | 91.2 | 1 |
| <i>Columbus medical college</i> | | | | | |
| Stuart, Spencer Howell..... | 1893 | May | S | 80.8 | 4 |
| <i>Eclectic medical institute, Cincinnati</i> | | | | | |
| Parsons, Bert R..... | 1899 | June | E | 92.2 | 1 |
| <i>Laura memorial woman's med. coll., Cin.</i> | | | | | |
| Norton, Annie..... | 1897 | Jan. | S | 84.6 | 1 |
| <i>Starling medical college, Columbus</i> | | | | | |
| Failed..... | 1896 | June | S | 81.3 | 2 |
| Pennsylvania | | | | | |
| <i>Hahnemann medical college, Philadelphia</i> | | | | | |
| Failed..... | 1880 | June | H | 64.4 | 1 |
| Carrier, Eugene Kellogg..... | 1899 | June | H | 89.9 | 1 |
| Casselberry, John Logan..... | 1896 | June | H | 86.9 | 1 |
| h Ogden, George Stewart..... | 1898 | Jan. | H | 94.5 | 1 |
| h Peckham, Alva Laurence..... | 1899 | May | H | 94.5 | 1 |
| Skinner, Merton Ross..... | 1899 | June | H | 88.5 | 1 |
| Failed..... | 1896 | Ap. | H | 80 | 3 |
| h Tubbs, William Ray..... | 1899 | June | H | 92.2 | 1 |
| Whiteman, James Leonard..... | 1896 | Sep. | H | 82.7 | 1 |

Physicians licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|---|--------------------|---------------------|-------|-----------------|---------------|
| <i>Jefferson medical college, Philadelphia</i> | | | | | |
| Failed | 1897 | June | S | 74.1 | 2 |
| Failed | 1876 | Jan. | S | 68 | 1 |
| <i>Medico-chirurgical college of Philadelphia</i> | | | | | |
| Failed | 1896 | Ap. | S | 69.1 | 1 |
| Failed | 1899 | June | S | 77.8 | 1 |
| <i>University of Pennsylvania</i> | | | | | |
| h Babbitt, James Addison | 1898 | Jan. | S | 94.9 | 1 |
| Blake, Harris Joseph | 1896 | Jan. | S | 80 | 1 |
| Gosman, George Henry Rankin | 1898 | Jan. | S | 82.1 | 2 |
| Grant, Walter Scott | 1899 | June | S | 86.7 | 1 |
| Le Boutillier, Theodore | 1898 | May | S | 80 | 1 |
| May, James Vance | 1897 | Ap. | S | 90.1 | 1 |
| h Reynolds, Charles Ransom | 1899 | June | S | 93.1 | 1 |
| Snell, Albert C. | 1899 | June | S | 81.5 | 1 |
| Uptegrove, Edward Pierson | 1899 | June | S | 84.7 | 1 |
| Walsh, James Joseph | 1895 | Jan. | S | 92 | 1 |
| Ward, William Douglas | 1899 | June | S | 91.2 | 1 |
| Witherspoon, Charles Russel | 1898 | June | S | 88.1 | 1 |
| <i>South Carolina</i> | | | | | |
| <i>South Carolina medical college</i> | | | | | |
| Pringleau, William Hutson, jr. | 1893 | Jan. | S | 90 | 1 |
| <i>Tennessee</i> | | | | | |
| <i>Memphis hospital medical college</i> | | | | | |
| Failed | 1897 | Jan. | S | 70.4 | 1 |
| <i>Vanderbilt university</i> | | | | | |
| Dorian, John Steel | 1899 | May | S | 88.6 | 1 |
| <i>Texas</i> | | | | | |
| <i>University of Texas</i> | | | | | |
| Robertson, Joseph Archibald | 1898 | Sep. | S | 85.4 | 1 |
| <i>Vermont</i> | | | | | |
| <i>University of Vermont</i> | | | | | |
| Failed | 1898 | Jan. | S | 77.8 | 1 |
| Keyes, William Richard | 1898 | Sep. | S | 82.4 | 1 |
| Love, James | 1898 | Ap. | S | 86 | 1 |
| Lovell, James Erwin | 1898 | Jan. | S | 80 | 2 |
| Preston, Edwin Franklin | 1894 | Jan. | S | 81 | 1 |
| Requa, Peter Augustine | 1896 | Ap. | S | 79.6 | 1 |
| Sprague, Charles Benjamin | 1898 | Jan. | S | 80.4 | 2 |
| Trotter, John, jr. | 1898 | Sep. | S | 85.3 | 1 |
| West, Arthur Dudley | 1898 | Sep. | S | 88.1 | 1 |
| <i>Virginia</i> | | | | | |
| <i>University of Virginia</i> | | | | | |
| Collins, Christopher Clark | 1895 | Sep. | S | 91.3 | 1 |
| Shlenker, Milton A. | 1897 | Ap. | S | 88 | 1 |
| h Whittemore, Edward Lancaster | 1894 | May | S | 92.4 | 1 |

Physicians licensed at examinations, etc. (continued)

Schools in foreign countries

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|--|--------------------|---------------------|-------|-----------------|---------------|
| Austria | | | | | |
| <i>University of Vienna</i> | | | | | |
| Teimer, Theodor..... | 1897 | Jan. | S | 89.4 | 1 |
| Canada | | | | | |
| <i>McGill university, Montreal</i> | | | | | |
| Blackett, John William..... | 1898 | Sep. | S | 91.9 | 1 |
| h Delmage, Frederick William..... | 1897 | Ap. | S | 93.9 | 1 |
| McKee, George Lloyd..... | 1890 | Jan. | S | 87.1 | 1 |
| Stackhouse, Oswald Charles Seymour..... | 1896 | Sep. | S | 86.9 | 1 |
| <i>Queen's university, Kingston, Ont.</i> | | | | | |
| Corrigan, Daniel James..... | 1898 | Sep. | S | 89.6 | 1 |
| h Huffman, Freeman G..... | 1897 | Sep. | S | 95.4 | 1 |
| Ilett, Ambrose Emmons..... | 1898 | Ap. | S | 86.9 | 1 |
| Irwin, Arthur William..... | 1898 | Jan. | S | 86.9 | 1 |
| Letellier, Adolphe..... | 1897 | June | S | 88.7 | 1 |
| McCambridge, Charles John..... | 1898 | Jan. | S | 92.1 | 1 |
| h Moffatt, William..... | 1898 | Sep. | S | 90.6 | 1 |
| <i>Trinity medical college, Toronto</i> | | | | | |
| Corcoran, Joseph A..... | 1898 | Jan. | S | 85 | 2 |
| h Shoemaker, Edwin..... | 1898 | Sep. | S | 94.4 | 1 |
| Williams, Ralph Clarke..... | 1897 | Sep. | S | 87.1 | 1 |
| <i>University of Toronto</i> | | | | | |
| Hopkins, John Rolph..... | 1898 | Sep. | S | 85.1 | 1 |
| Kitchen, William Whitney..... | 1899 | June | S | 91.2 | 1 |
| <i>Western university, London, Ont.</i> | | | | | |
| Fitzgerald, Fred Jesse Comfort..... | 1897 | Sep. | S | 82.9 | 1 |
| Cuba | | | | | |
| <i>University of Havana</i> | | | | | |
| Guillem, Felipe Galvez y..... | 1884 | Sep. | S | 86.1 | 8 |
| England | | | | | |
| <i>Royal college of surgeons</i> | | | | | |
| <i>Licensed royal college physicians, London</i> | | | | | |
| h Beddy, Thomas Alfred..... | 1893 | } Ap. | S | 93.4 | 1 |
| | 1893 | | | | |
| <i>Royal college of surgeons</i> | | | | | |
| <i>Licensed society of apothecaries, London</i> | | | | | |
| h Coryn, Herbert Alfred William..... | 1889 | } June | S | 93.8 | 1 |
| | 1888 | | | | |
| France | | | | | |
| <i>Diploma signed by minister of public instruction, Paris</i> | | | | | |
| Turner, Arthur Robert..... | 1894 | Jan. | S | 92.1 | 1 |

Physicians licensed at examinations, etc. (concluded)

| NAME OF CANDIDATE | Date of graduation | Date of examination | Board | General average | No. of trials |
|--|--------------------|---------------------|-------|-----------------|---------------|
| Germany | | | | | |
| <i>License to practise medicine in Germany</i> | | | | | |
| Jordan, Carl Heinrich Richard..... | 1894 | Sep. | S | 80.9 | 1 |
| Vogel, Carl Georg..... | 1895 | Sep. | S | 79.2 | 2 |
| <i>University of Berlin</i> | | | | | |
| German, Schlemma..... | 1898 | Jan. | S | 86 | 1 |
| Schlapp, Max Gustav..... | 1897 | Ap. | S | 86 | 1 |
| Italy | | | | | |
| <i>University of Bologna</i> | | | | | |
| Failed..... | 1897 | Jan. | S | 63.4 | 1 |
| <i>University of Naples</i> | | | | | |
| Blasucci, Ernesto..... | 1890 | Jan. | S | 84.1 | 2 |
| Candela, Domenico..... | 1898 | Ap. | S | 80.2 | 2 |
| Failed..... | 1891 | June | S | 59.1 | 3 |
| Failed..... | 1891 | June | E | 74.2 | 1 |
| Failed..... | 1891 | May | E | 73.1 | 3 |
| Mucci, Frank..... | 1890 | Sep. | E | 81.5 | 2 |
| Sellaro, Vincenzo..... | 1895 | Sep. | S | 79.7 | 3 |
| Failed..... | 1899 | June | E | 66.8 | 1 |
| <i>University of Palermo</i> | | | | | |
| Failed..... | 1897 | June | S | 80 | 3 |
| <i>University of Rome</i> | | | | | |
| Capodistria, Nicolaus..... | 1870 | Ap. | Ea | 80 | 3 |
| Crocicchia, Antonio..... | 1893 | Sep. | S | 84.1 | 1 |
| Netherlands | | | | | |
| <i>University of Utrecht</i> | | | | | |
| Muskens, Louis Jacob Joseph..... | 1896 | Jan. | S | 80.9 | 1 |
| Roumania | | | | | |
| <i>University of Bucharest</i> | | | | | |
| Jurim, Tobias..... | 1894 | Ap. | S | 81.4 | 2 |
| Russia | | | | | |
| <i>University of Jounieff, Dorpat</i> | | | | | |
| Chetkin, Philipp Selig Bencionovitch..... | 1896 | Jan. | S | 80.7 | 2 |

a First five examinations were taken before state board.

Dentists licensed at examinations Aug. 1, 1898—July 31, 1899

Group 1, New York schools; group 2, schools in other states; group 3, schools in foreign countries.

h means passed the examination with honor, i. e. 90% or above in three fourths of the subjects.

New York schools

| NAME OF CANDIDATE | Preliminary education | Date of graduation | Date of examination | General average | No. of trials |
|--|-----------------------|--------------------|---------------------|-----------------|---------------|
| New York | | | | | |
| <i>New York college of dentistry</i> | | | | | |
| <i>h</i> Bamford, Austin Chester..... | 24 cts..... | 1899 | May | 94 | 1 |
| <i>h</i> Birkbahn, Alexander Maurice... | 24 cts..... | 1899 | May | 94 | 1 |
| <i>h</i> Bowman, Harry | 24 cts..... | 1899 | May | 90 | 1 |
| Braverman, Bernard | 24 cts..... | 1899 | May | 89 | 1 |
| Brinkman, Max R. | Matric..... | 1885 | Jan. | 89 | 1 |
| <i>h</i> Brown, Egbert W. | 24 cts..... | 1899 | May | 98 | 1 |
| <i>h</i> Davenport, Franklin Niles..... | Matric..... | 1898 | Jan | 91 | 1 |
| <i>h</i> Desnoes, Alfred Merino | Matric..... | 1896 | Sep. | 94 | 1 |
| <i>h</i> Donlevy, John Patrick..... | 24 cts..... | 1899 | June | 93 | 1 |
| Douglass, Walter George | 3 yrs h. s. | 1899 | May | 90 | 1 |
| Enos, Charles Read..... | Matric..... | 1897 | Jan. | 90 | 1 |
| <i>h</i> Green, Maurice | 24 cts..... | 1899 | May | 94 | 1 |
| <i>h</i> Hasbrouck, John Roswell..... | 24 cts..... | 1899 | May | 94 | 1 |
| Hough, Eli Charles | Matric..... | 1898 | Sep. | 92 | 1 |
| <i>h</i> Howe, Clarence Otis Stephen.... | 3 yrs h. s. | 1899 | May | 92 | 1 |
| <i>h</i> Hubbell, Charles Gregory | B. S. | 1899 | May | 98 | 1 |
| Irving, William Watson..... | 3 yrs h. s. | 1899 | May | 91 | 1 |
| Jeshurun, George..... | Matric..... | 1898 | Sep. | 88 | 1 |
| <i>h</i> Koch, John Peter | 24 cts..... | 1899 | May | 94 | 1 |
| Leprohon, Jean B. | 3 yrs h. s. | 1899 | May | 85 | 1 |
| <i>h</i> Levy, Joseph Meyer | 24 cts..... | 1899 | May | 92 | 1 |
| <i>h</i> Limbath, Charles Christian..... | 24 cts..... | 1899 | May | 92 | 1 |
| Pentz, Robert Hastings | 24 cts..... | 1899 | May | 90 | 1 |
| <i>h</i> Quaile, Richard Davenport | 12 cts..... | 1899 | May | 90 | 1 |
| <i>h</i> Rabell, Charles Francis | 24 cts..... | 1899 | May | 94 | 1 |
| <i>h</i> Riggs, Walter Clark | 24 cts..... | 1899 | May | 93 | 1 |
| Rubinoff, Joshua Max | Matric..... | 1898 | Sep. | 85 | 1 |
| Saghirian, Jivani Hartin | B. A. | 1899 | May | 88 | 1 |
| <i>h</i> Strobridge, Robert..... | 24 cts..... | 1899 | May | 98 | 1 |
| Urban, Charles | 24 cts..... | 1899 | May | 91 | 1 |
| <i>h</i> Urich, John Edward..... | Matric..... | 1898 | Ap. | 98 | 1 |
| <i>h</i> Vaughan, Ray G. | Ac. dip | 1899 | May | 95 | 1 |
| Vogel, William P. | 24 cts..... | 1899 | May | 94 | 1 |
| Walther, Arno William | 24 cts..... | 1899 | May | 90 | 1 |
| Weinlandt, William O | Matric..... | 1898 | Ap. | 87 | 1 |
| Zuchtmann, Simon | 24 cts..... | 1899 | June | 88 | 2 |
| New York dental school | | | | | |
| Abel, Franz F. W. A..... | Matric..... | 1898 | Sep. | 90.2 | 2 |
| Ernest, Otto..... | 24 cts..... | 1899 | May | 92 | 1 |
| <i>a</i> | 24 cts..... | 1899 | May | 87 | 1 |
| French, Frank Whitney..... | 12 cts..... | 1899 | May | 89 | 1 |
| Grüher, Herman | 24 cts..... | 1899 | May | 92 | 1 |

a Requirements not yet fully met.

Dentists licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Preliminary education | Date of graduation | Date of examination | General average | No. of trials |
|---|-----------------------|--------------------|---------------------|-----------------|---------------|
| <i>New York dental school (cont'd)</i> | | | | | |
| Lewis, Edgar Flint..... | 24 cts. | 1899 | May | 88 | 1 |
| Mintz, Jacob J..... | 24 cts. | 1899 | May | 89 | 1 |
| Rosenson, Anna..... | 3 yrs h. s..... | 1899 | May | 91 | 1 |
| Samson, George Dexter..... | Matric..... | 1899 | May | 93 | 1 |
| Sinai, Matilda..... | 3 yrs h. s..... | 1899 | May | 87 | 1 |
| Suriani, Philip..... | Matric..... | 1899 | June | 88.8 | 2 |
| h Sutherland, James Reynold..... | 24 cts..... | 1899 | May | 92 | 1 |
| h Tantum, Maria Louisa..... | 12 cts. | 1899 | May | 94 | 1 |
| h Wilson, Lawton Hazard..... | Med. stud. cert.. | 1899 | May | 95 | 1 |
| <i>University of Buffalo, dental dept</i> | | | | | |
| Anderson, Frank..... | 3 yrs h. s..... | 1899 | June | 92 | 1 |
| Austin, George Morris..... | Matric..... | 1899 | May | 81.5 | 1 |
| h Beaumont, William George..... | Matric..... | 1899 | May | 95 | 1 |
| h Bennett, Charles Alonzo..... | Matric..... | 1899 | May | 95 | 1 |
| h Biker, Frank Joseph..... | 24 cts..... | 1899 | May | 97 | 1 |
| Bradley, Michael Courtney..... | Matric..... | 1899 | May | 92 | 1 |
| Brown, Jacob Harry..... | Matric..... | 1898 | May | 80.1 | 4 |
| Burghardt, Harry Dayton..... | Matric..... | 1898 | Sep | 82.7 | 2 |
| Burke, William John..... | Matric..... | 1899 | June | 82 | 2 |
| h Cant, Duncan Alexander..... | 3 yrs h. s..... | 1899 | May | 92 | 1 |
| h Champlin, Frederic William..... | 50 cts..... | 1899 | May | 93 | 1 |
| h Cobb, Arthur Burdette..... | 3 yrs h. s..... | 1899 | May | 97 | 1 |
| Cole, John Emerson..... | Matric..... | 1898 | Sep | 90 | 1 |
| h Cook, Frank Winthrop..... | 12 cts..... | 1899 | May | 94 | 1 |
| Cox, Frederic Seaman..... | Matric..... | 1899 | June | 88 | 1 |
| h Danforth, Guy Rufus..... | 24 cts..... | 1899 | May | 93 | 1 |
| Failed..... | 3 yrs h. s..... | 1899 | May | 86.1 | 1 |
| Dunn, John Elmor..... | 24 cts..... | 1899 | May | 86 | 1 |
| Eahleman, M. Burton..... | Matric..... | 1898 | Sep | 85.8 | 2 |
| h Fairfield, Harry Gardiner..... | 3 yrs h. s..... | 1899 | May | 92 | 1 |
| Fletcher, Robert Joseph..... | Matric..... | 1899 | May | 94 | 1 |
| h Fraley, Charles Joseph..... | Matric..... | 1899 | May | 96 | 1 |
| Gillam, Charles Elisha..... | Matric..... | 1899 | May | 89 | 1 |
| h Goode, Gladstone..... | 24 cts..... | 1899 | May | 98 | 1 |
| Graf, Katharine Magdelane M..... | Matric..... | 1898 | Sep | 79.8 | 8 |
| Hanna, John Nicholas..... | Matric..... | 1898 | June | 79.1 | 8 |
| h Harmon, Bertrand Oscar..... | Matric..... | 1899 | May | 95 | 1 |
| h Hickelton, Charles Henry..... | 12 cts..... | 1899 | May | 92 | 1 |
| h Hoffman, Abram..... | Matric..... | 1899 | May | 88 | 1 |
| h Horton, George Lee..... | 70 ct. dip.. | 1899 | May | 96 | 1 |
| Howell, Harry Collins..... | Matric..... | 1898 | June | 80.2 | 2 |
| h Isham, Arthur Fuller..... | 3 yrs h. s..... | 1899 | May | 94 | 1 |
| Jacob, William Dawson..... | Matric..... | 1899 | May | 92 | 1 |
| h Jessel, Arthur John..... | Ac. dip..... | 1899 | May | 99 | 1 |
| Kennedy, Clement Dale..... | 24 cts..... | 1899 | June | 93.6 | 2 |
| Kinsella, Burt..... | 24 cts..... | 1899 | May | 89 | 1 |
| Laborn, Charles Henry..... | Matric..... | 1898 | Jan. | 88.8 | 2 |
| Lee, Francis J..... | 24 cts..... | 1899 | May | 88 | 1 |
| Leonard, William Nicklis..... | Matric..... | 1899 | May | 90 | 1 |
| h Luton, Harry Heathcote..... | 3 yrs h. s..... | 1899 | May | 96 | 1 |
| Mason, Harry Koch..... | Matric..... | 1899 | May | 87 | 1 |
| h Merkley, Russel George William..... | 3 yrs h. s..... | 1899 | May | 96 | 1 |
| h Merkley, Stanley Albert..... | 3 yrs h. s..... | 1899 | May | 94 | 1 |

Dentists licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Preliminary education | Date of graduation | Date of examination | General average | No. of trials |
|---|--------------------------|--------------------|---------------------|-----------------|---------------|
| <i>Univ. of Buffalo, dent. dep't (cont'd)</i> | | | | | |
| <i>h</i> Middaugh, John E | Ac. dip. | 1899 | May | 91 | 1 |
| Mooney, Mansfield Earnest. | 3 yrs h. s. | 1899 | May | 94 | 1 |
| <i>h</i> Mouthrop, George Franklin. | 3 yrs h. s. | 1899 | May | 94 | 1 |
| Muir, Arthur Bryce. | 3 yrs h. s. | 1899 | May | 98 | 1 |
| Muntz, Emanuel | Med. stud. cert. | 1899 | June | 90 | 1 |
| <i>h</i> Murray, Daniel McPherson. | Matric. | 1899 | May | 91 | 1 |
| Northup, George Albert. | Matric. | 1898 | Sep. | 83 | 2 |
| <i>h</i> O'Leary, George | 50 cts. | 1899 | May | 93 | 1 |
| <i>h</i> Orwan, Frederick William | 12 cts. | 1899 | May | 93 | 1 |
| <i>h</i> O'Shea, Thomas Francis. | 3 yrs h. s. | 1899 | May | 95 | 1 |
| Reynolds, Herman Eugene | 12 cts. | 1899 | May | 89 | 1 |
| Robinson, Clare Eugene. | 24 cts. | 1899 | June | 92.5 | 2 |
| <i>h</i> Roche, William James | Ac. dip. | 1899 | May | 94 | 1 |
| <i>h</i> Schmidt, Robert Roy. | Ac. dip. | 1899 | May | 93 | 1 |
| <i>h</i> Shirley, Grace Newton | 3 yrs h. s. | 1899 | May | 98 | 1 |
| Smith, Howard Arthur. | 3 yrs h. s. | 1899 | June | 87.6 | 2 |
| Failed | Matric. | 1899 | June | 73 | 1 |
| Stewart, Duncan McKay | Matric. | 1898 | Sep. | 85.2 | 2 |
| Tracy, Alonzo Whitcomb | Matric. | 1899 | June | 85 | 1 |
| Wardner, James Forbes | Matric. | 1899 | May | 92 | 1 |
| Wettlaufer, Louis E. | Matric. | 1898 | June | 81.5 | 3 |
| <i>h</i> Willson, William Howard. | 3 yrs h. s. | 1899 | May | 96 | 1 |
| Wilson, Jay Leonard. | Matric. | 1899 | May | 84 | 1 |

Schools in other states

| NAME OF CANDIDATE | Preliminary education | Date of graduation | Date of examination | General average | No. of trials |
|--|-----------------------|--------------------|---------------------|-----------------|---------------|
| District of Columbia | | | | | |
| <i>Columbian university, dental department, Washington</i> | | | | | |
| <i>h</i> Dunne, James C. | Matric. | 1898 | June | 92 | 1 |
| Illinois | | | | | |
| <i>Northwestern university, dental department, Chicago</i> | | | | | |
| Garling, Nathaniel Lay. | Matric. | 1898 | Jan. | 88.1 | 1 |
| Failed. | Matric. | 1898 | Ap. | 77.1 | 1 |
| Iowa | | | | | |
| <i>University of Iowa, dental dep't</i> | | | | | |
| Dodge, Clarence A. | Matric. | 1897 | June | 92.5 | 2 |
| Kentucky | | | | | |
| <i>Louisville college of dentistry</i> | | | | | |
| ollock, Philip John. | Matric. | 1896 | Sep. | 88.6 | 1 |

Dentists licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Preliminary education | Date of graduation | Date of examination | General average | No. of trials |
|---|-----------------------|--------------------|---------------------|-----------------|---------------|
| Maryland | | | | | |
| <i>Baltimore college of dental surgery</i> | | | | | |
| de Chiara, George..... | Matric..... | 1899 | June | 81 | 2 |
| Dunning, William O..... | Matric..... | 1898 | Jan | 88 | 2 |
| Kelly, Jesse M..... | Matric..... | 1898 | May | 81.5 | 2 |
| Failed..... | 3 yrs h. s..... | 1899 | June | 71.7 | 1 |
| Stillman, Paul R..... | Old law..... | 1899 | Ap. | 86 | 1 |
| Straight, Charles Winter..... | Matric..... | 1898 | Ap. | 85 | 2 |
| Tice, Charles H..... | Matric..... | 1898 | Sep. | 82 | 1 |
| Towberman, Drury Lacy..... | Matric..... | 1898 | Sep. | 83 | 1 |
| <i>Baltimore medical college, dental department</i> | | | | | |
| Lehmann, Emanuel..... | 3 yrs h. s..... | 1899 | May | 91 | 1 |
| University of Maryland | | | | | |
| Browne, Wilbur Fiske..... | 3 yrs h. s..... | 1899 | June | 93 | 1 |
| Hawley, Harry Gardner..... | 3 yrs h. s..... | 1899 | May | 87 | 1 |
| h Scott, Robert J., jr..... | 24 cts..... | 1899 | May | 90 | 1 |
| Taggart, Robert William..... | Matric..... | 1898 | Sep. | 84 | 1 |
| Tibbetts, Willard H..... | 24 cts..... | 1899 | May | 91 | 1 |
| Massachusetts | | | | | |
| <i>Boston dental college</i> | | | | | |
| h Colson, Henry Arthur..... | Matric..... | 1898 | May | 80 | 1 |
| De Witt, William Price..... | 20 cts..... | 1899 | June | 88 | 1 |
| Michigan | | | | | |
| <i>University of Michigan, dental department</i> | | | | | |
| Forbes, Robert Norman..... | Matric..... | 1898 | Sep. | 91 | 1 |
| Thompson, Daniel Michael..... | Matric..... | 1898 | Jan. | 86.8 | 2 |
| Ohio | | | | | |
| <i>Cincinnati college of dental surgery</i> | | | | | |
| Failed..... | Matric..... | 1897 | Ap. | 49.2 | 1 |
| <i>Western Reserve university, dental department</i> | | | | | |
| Fisher, Albert Carl..... | Matric..... | 1898 | Ap. | 87 | 1 |
| Pennsylvania | | | | | |
| <i>Pennsylvania college of dental surgery, Philadelphia</i> | | | | | |
| Aumack, Gifford B..... | Matric..... | 1898 | Sep. | 86 | 1 |
| Failed..... | Matric..... | 1898 | Jan. | 75.3 | 1 |
| Drummond, John Hector..... | Matric..... | 1898 | Jan. | 79.3 | 2 |
| Ellis, Richard..... | Matric..... | 1899 | Ap. | 92 | 1 |
| Hall, J. Scoville..... | Matric..... | 1898 | Sep. | 88 | 1 |
| Henchey, William James..... | Matric..... | 1898 | Jan. | 86.7 | 2 |
| Horner, William Arthur..... | Matric..... | 1896 | June | 84.8 | 2 |
| Logan, George F..... | Matric..... | 1898 | Sep. | 88 | 1 |
| Oliver, Harry Irving..... | Matric..... | 1898 | Ap. | 89 | 1 |
| Paine, George Francis..... | Matric..... | 1897 | Ap. | 82 | 2 |
| Failed..... | Matric..... | 1898 | Sep. | 87.2 | 1 |
| Wark, James Finley..... | Matric..... | 1899 | June | 84 | 1 |

Dentists licensed at examinations, etc. (continued)

| NAME OF CANDIDATE | Preliminary education | Date of graduation | Date of examination | General average | No. of trials |
|---|--------------------------|-----------------------|------------------------|--------------------|---------------|
| <i>Philadelphia dental college</i> | | | | | |
| Failed | Matric..... | 1899 | June | 77.5 | 1 |
| Brazill, Manuel Joseph | 3 yrs h. s. | 1899 | May | 84 | 1 |
| h Coe, Ira Jerome | 3 yrs h. s. | 1899 | Ap. | 95 | 1 |
| Cornelius, Charles Frederick | 3 yrs h. s. | 1899 | June | 88 | 1 |
| Farr, Frederick Charles | Matric..... | 1898 | Jan. | 82.8 | 2 |
| Girard, George Eugene | Matric..... | 1898 | Sep. | 78.2 | 2 |
| Green, Robert Barnes | Matric..... | 1898 | Sep. | 85.2 | 2 |
| Hutchens, Warren Brown | Matric..... | 1898 | Sep. | 89 | 1 |
| Failed | B. A. | 1899 | June | 86.1 | 1 |
| h Maryson, Dorothy J. | 24 cts. | 1899 | Ap. | 93 | 1 |
| Moon, Charles Shattuck | Matric..... | 1898 | Sep. | 86 | 2 |
| Northup, Wilmarth I | 3 yrs h. s. | 1899 | May | 88 | 1 |
| Osborne, Grant W. | 3 yrs h. s. | 1899 | June | 93 | 1 |
| Parker, Harold C. | Matric..... | 1899 | May | 88.8 | 2 |
| Roberts, Edward Stanton | Matric..... | 1898 | Jan. | 81.1 | 3 |
| h Turner, Raymond Comestock .. | Matric..... | 1899 | Ap. | 94 | 1 |
| Williams, Frederick Harold | Matric..... | 1898 | Sep. | 88 | 1 |
| <i>University of Pennsylvania dental department</i> | | | | | |
| h Agnew, William Ernest | 3 yrs h. s. | 1899 | June | 93 | 1 |
| Babcock, Warren | Matric..... | 1898 | Sep. | 88 | 1 |
| h Brininstool, Charles Leggett .. | Matric..... | 1898 | Sep. | 95 | 1 |
| Bushong, Charles Augustus | Matric..... | 1895 | June | 81.2 | 1 |
| Coyle, James Thomas | Matric..... | 1898 | Sep. | 88 | 1 |
| Cunningham, Edward Gillespie .. | Matric..... | 1898 | Sep. | 88 | 1 |
| Davis, Hardin | 3 yrs h. s. | 1899 | June | 92.7 | 1 |
| h Dunne, Charles M. | 24 cts. | 1899 | June | 96 | 1 |
| h Filkins, Warren van Houten .. | Matric..... | 1898 | Sep. | 92 | 1 |
| h Fulton, John Gordon | 24 cts. | 1899 | Jnne | 94 | 1 |
| Hastings, James Monroe jr. | Matric..... | 1898 | Sep. | 86.2 | 1 |
| Henry, Clare Martin | Matric..... | 1898 | Sep. | 87 | 1 |
| h Howe, Roy Stanley | 3 yrs h. s. | 1899 | June | 94 | 1 |
| Jones, Lawrence H. | Ac. dip | 1899 | June | 86 | 1 |
| Newkirk, Henry Cady | Matric..... | 1898 | Sep. | 88.7 | 2 |
| h Palmer, Byron Wilbur | Matric..... | 1898 | Jan. | 90 | 1 |
| Phymister, William John | Matric..... | 1897 | Ap. | 86.1 | 2 |
| St Amand, Augustus Corey | Matric..... | 1899 | June | 88 | 1 |
| Stanley, John Prince | 3 yrs h. s. | 1899 | June | 86.2 | 1 |
| Sutherland, William Robert | 3 yrs h. s. | 1899 | June | 87 | 1 |
| h Vaughan, Harold Stearns | 24 cts | 1899 | June | 97 | 1 |
| <i>Tennessee</i> | | | | | |
| <i>Vanderbilt university, dental de- partment</i> | | | | | |
| Failed | Matric..... | 1898 | Ap. | 65.3 | 1 |

Dentists licensed at examinations, etc. (*concluded*)

Schools in foreign countries

| NAME OF CANDIDATE | Preliminary education | Date of graduation | Date of examination | General average | No. of trials |
|--|-----------------------|--------------------|---------------------|-----------------|---------------|
| Russia <i>Certificate, Imperial university of St Vladimir, Kieff</i> | | | | | |
| Failed | Matric..... | 1897 | June | 75 | 2 |

Dentists licensed at examinations Aug. 1, 1898 — July 31, 1899

Under exemption laws 1895, ch. 626, § 163

| NAME OF CANDIDATE | Date of examination | General average | No. of trials |
|------------------------|---------------------|-----------------|---------------|
| Failed | Ap. | 57.1 | 1 |
| Failed | May | 54.2 | 5 |
| Failed | Sep. | 65.8 | 4 |
| Failed | Sep. | 51.7 | 1 |
| Skinner, Perry R | June | 92 | 1 |

Veterinarians licensed at examinations Aug. 1, 1898—July 31, 1899

New York schools

| NAME OF CANDIDATE | Date of graduation | Date of examination | General average | No. of trials |
|---|--------------------|---------------------|-----------------|---------------|
| New York <i>American veterinary college</i> | | | | |
| Johnson, William Lawrence..... | 1898 | Jan. | 91 | 1 |
| Weisbrod, George..... | 1898 | Sep. | 80 | 3 |
| <i>New York college of veterinary surgery</i> | | | | |
| Failed | 1897 | June | 81 | 1 |
| Finn, Philip Caspian..... | 1898 | Sep. | 81 | 2 |
| <i>New York state veterinary college</i> | | | | |
| Fish, Pierre Augustus..... | 1899 | June | 90 | 1 |
| Gay, Carl W..... | 1899 | June | 91 | 1 |
| Illston, Henry Wright..... | 1899 | June | 90 | 1 |
| Kelly, Albert Boulware..... | 1898 | Sep. | 91 | 2 |
| Perkins, Chester R..... | 1899 | June | 86 | 1 |
| Failed | 1899 | June | 86 | 1 |
| Scammel, Floyd Gage..... | 1899 | June | 85 | 2 |

Veterinarians licensed at examinations, etc. (*concluded*)

Schools in other states

| NAME OF CANDIDATE | Date of graduation | Date of examination | General average | No. of trials |
|--|--------------------|---------------------|-----------------|---------------|
| Pennsylvania | | | | |
| <i>University of Penn., veterinary dep't</i> | | | | |
| Failed | 1890 | Ap. | 82 | 4 |
| Schools in foreign countries | | | | |
| Canada | | | | |
| <i>McGill university, veterinary dep't</i> | | | | |
| Failed | 1898 | Ap. | 87 | 2 |
| Inglis, William K. | 1895 | Jan. | 87 | 2 |
| <i>Ontario veterinary college</i> | | | | |
| Stevenson, William S. | 1889 | Jan. | 80 | 3 |
| Scotland | | | | |
| <i>Royal college of veterinary surgeons</i> | | | | |
| Blakely, John. | 1881 | Sep. | 84 | 2 |

C. P. A. certificates issued at examinations Aug. 1, 1898—July 31, 1899

| NAME OF CANDIDATE | Date of examination | General average | No. of trials |
|------------------------------|---------------------|-----------------|---------------|
| Allen, John L. M. | Dec. | 80 | 2 |
| Failed | Dec. | 67 | 1 |
| Beach, Oren Milton | Dec. | 78.7 | 2 |
| Failed | June | 87 | 1 |
| Brown, Robert Rankins | Dec. | 83.7 | 2 |
| Chalmers, Rashleigh | Dec. | 84.5 | 1 |
| Champlin, Henry S. | Dec. | 86.2 | 1 |
| Fisher, Leon Orr | June | 95.2 | 2 |
| Failed | June | 71.2 | 2 |
| Hersloff, Nils Broe | Dec. | 80 | 1 |
| Failed | June | 82.5 | 1 |
| Failed | June | 75 | 1 |
| Patterson, Stuart Hayt | Dec. | 86.7 | 2 |
| Failed | Dec. | 62.2 | 2 |
| Ross, Christine | Dec. | 86 | 2 |
| Failed | June | 78.5 | 2 |

LICENSES ISSUED BY THE UNIVERSITY WITHOUT EXAMINATION

Under exemptions in the professional laws the University has also issued licenses during the year to

138 physicians

Indorsement of medical diplomas Aug. 1, 1898 — July 31, 1899

LAWS OF 1898, CH. 661, § 148 ¶2

To make valid imperfect registrations

| NAME OF PHYSICIAN | Date | Board |
|--|-------------|--------------|
| Illinois | | |
| <i>Hahnemann medical college and hospital, Chicago</i> | | |
| Gorham, George Elmer..... | Mar. | H |
| Michigan | | |
| <i>Detroit homeopathic medical college</i> | | |
| Doane, William Cowles, also { <i>Castleton (Vt.) med. coll.</i> } { <i>Univ. of State of N. Y.</i> } .. | Oct. | S |
| <i>University of Michigan</i> | | |
| Campbell, Daniel St Clair.. | Mar. | S |
| Dennis, Frank Wellington..... | Oct. | S |
| Mooney, Edward L..... | May | S |
| Ottaway, John Edward..... | Jan. | S |
| New Hampshire | | |
| <i>Dartmouth medical college</i> | | |
| Bingle, Henry D..... | Aug. | S |
| Ohio | | |
| <i>Cleveland homeopathic hospital college</i> | | |
| (now <i>Cleveland university of medicine and surgery</i>) | | |
| Terry, Marshall Orlando..... | July | H |
| Pennsylvania | | |
| <i>Eclectic medical college Philadelphia</i> | | |
| Truman, Adelbert William..... | Oct. | E |
| <i>Hahnemann medical college and hospital Philadelphia</i> | | |
| Williamson, Alonzo Potter..... | Dec. | H |
| <i>Homeopathic medical college of Pennsylvania</i> | | |
| Southwick, Augustus B | July | H |
| <i>University of Pennsylvania</i> | | |
| Hopkins, George Gallagher | Nov. | S |
| Justin, Joel Gilbert..... | June | S |
| Canada | | |
| <i>Victoria college, Ontario</i> | | |
| Indorsed by <i>Bellevue hospital medical college</i> | | |
| Olver, Jabez B..... | Dec. | S |

LAWS OF 1898, CH. 661, § 148

Matriculates in New York state medical schools before June 5, 1890

Group 1, New York schools; group 2, schools in other states; group 3, foreign countries.

| NAME OF PHYSICIAN | Date |
|--|------|
| New York | |
| <i>Albany medical college</i> | |
| Davidson, J. Reid | Oct. |
| Willard, Thomas Hinckley | May |
| <i>Bellevue hospital medical college</i> | |
| Brooks, Charles Daniel | May |
| Jenkins, Frederic Elmer | Nov. |
| Nouel, Auguste Adolphe | Aug. |
| <i>College of physicians and surgeons</i> | |
| Barton, Philip Hale | Aug. |
| Gibson, Edward Tinkham | July |
| Gilchrist, Charles Alex | Nov. |
| Kennedy, David | May |
| Menzie, George LeRoy | July |
| Spence, Henry | Oct. |
| Steger, Robert William | Mar. |
| Wolff, Henry A. | June |
| <i>New York homeopathic medical college</i> | |
| Downer, Abner George | June |
| <i>New York medical college and hospital for women</i> | |
| Chamberlin, Caroline Parker | Ap. |
| <i>New York university, medical department</i> | |
| Best, Oliver Fletcher | Mar. |
| Blakeslee, William Riley | Oct. |
| Jewett, Joseph Waldo | Dec. |
| Lowe, Russell Walter | Ap. |
| Randolph, John Montgomery | May |
| Waterman, Halbert Lee | May |
| <i>University of Buffalo, medical department</i> | |
| Barnes, Charles S. | May |
| Haller, John Frederick | Feb. |
| Hubbard, Dwight Gustavus | Oct. |
| Ross, Marie S. | Nov. |
| Schools in other states | |
| Illinois | |
| <i>Bennett medical college, Chicago</i> | |
| La Tourette, Jennie B. | Dec. |
| Maryland | |
| <i>Baltimore university, school of medicine</i> | |
| Hunter, Henry John | Dec. |
| <i>University of Maryland</i> | |
| French, Charles Ephraim | |

Matriculates in New York state medical schools, etc. (continued)

| NAME OF PHYSICIAN | Date |
|--|------|
| Ohio | |
| <i>Wooster university (present name, Cleveland college of physicians and surgeons)</i> | |
| Woodhouse, Floyd Eugene..... | Mar. |
| Vermont | |
| <i>University of Vermont</i> | |
| Atkinson, Edward | June |
| Moore, John Patrick | Jan. |
| O'Neill, James Harrison..... | Sep. |
| Schools in foreign countries | |
| Canada | |
| <i>McGill university, Montreal</i> | |
| <i>Indorsed by Bellevue hospital medical college</i> | |
| Vineberg, Hiram N..... | June |

LAWS OF 1898, CH.661, §150

For registry in another county

Group 1, New York schools ; group 2, schools in other states ; group 3, foreign countries.

| NAME OF PHYSICIAN | Date |
|---|------|
| New York | |
| <i>Albany medical college</i> | |
| Alexander, Will Augustine..... | May |
| Cobb, Albert Crocker..... | Ap. |
| Flint, Charles C..... | Nov. |
| Hoag, Pierre C..... | Mar. |
| McCullough, Clive Charles..... | May |
| Macfarlane, Robert Forgie..... | Sep. |
| Peet, William Thomas..... | Mar. |
| Rogers, Sidney Franklin..... | Oct. |
| Rulison, Elbert T..... | Ap. |
| Sheffield, J. Wesley..... | May |
| Sheldon, Melvin..... | May |
| Wood, Jacob Aldrich..... | Mar. |
| <i>Bellevue hospital medical college</i> | |
| Casselman, Delmer Louis..... | Nov. |
| Oatman, Edward LeRoy..... | Jan. |
| Soper, Franklin..... | June |
| Virden, John Elmer..... | Dec. |
| <i>College of physicians and surgeons</i> | |
| Abrams, Alexander..... | June |
| Criado, Louis Fernandez..... | Nov. |
| Crim, Frank Dwight..... | June |

For registry in another county (concluded)

| NAME OF PHYSICIAN | Date |
|--|------|
| <i>New York — College of physicians and surgeons (continued)</i> | |
| del Risco, Justo..... | May |
| Derickson, Samuel jr..... | Nov. |
| Hexamer, Carl Reisig..... | May |
| Hitchcock, Purdy Leander..... | Nov. |
| Houghton, Alfred Swift..... | Oct. |
| Kortright, James Little..... | Jan. |
| Locke, Hersey Goodwin..... | Mar. |
| Lucas, David Fletcher..... | June |
| Ruggles, Emory Wood..... | Sep. |
| Simmons, Warren Seabury..... | Ap. |
| Snow, William Benham..... | May |
| Westcott, Nelson S..... | May |
| Wilkie, Mortimer Valleau..... | May |
| <i>Long Island college hospital</i> | |
| Bryant, James Douglas..... | Mar. |
| Codding, Edwin Hayden..... | May |
| Mulligan, Eugene Livingston..... | Aug. |
| Platt, Isaac Hull..... | Mar. |
| White, William Alanson..... | Sep. |
| <i>New York eclectic medical college</i> | |
| Gaedeke, John G. L..... | Jan. |
| Strong, George William..... | Ap. |
| <i>New York homeopathic medical college and hospital</i> | |
| Garrison, John Boggs..... | Nov. |
| Mills, Walter Sands..... | May |
| Paige, Harry Worthington..... | Nov. |
| Spoor, Fred W..... | Feb. |
| <i>New York medical college and hospital for women</i> | |
| Browne, M. Belle..... | Ap. |
| Howell, Ellen Woodward..... | May |
| Howland, Anna C..... | Dec. |
| Putnam, Marah Stearns..... | June |
| Russell, Antoinette E. C..... | Nov. |
| <i>New York university, medical department</i> | |
| Bridgman, Burt Nichols..... | Jan. |
| Carpenter, Walton Jay..... | Nov. |
| Dailey, Lawrence J..... | May |
| Day, La Mott..... | May |
| Festner, Bernard Frederick..... | Ap. |
| Gibson, Walter Campbell..... | Sep. |
| Henderson, Leonard Decker..... | May |
| Hoare, Joseph David..... | Oct. |
| Johnson, Edward Leighton..... | Ap. |
| Lounsberry, Robert Lanning..... | Aug. |
| MacCracken, William Benjamin..... | Ap. |
| Shepherd, John Candee..... | Mar. |
| Swift, Edwin Elisha..... | June |
| Van Denburg, Marvin Wallace..... | June |
| <i>Niagara university, medical department</i> | |
| Hill, Anthony J..... | Oct. |

For registry in another county (continued)

| NAME OF PHYSICIAN | Date |
|--|-----------------------------|
| <i>Syracuse medical college</i> | |
| Wasse, Gervas Miles.. { also holds diplomas of Courts of examiners of Royal coll. of surgeons and Society of art and mystery of apothecaries, London } | Ind. by Syracuse m.c. } Ap. |
| <i>University of Buffalo, medical department</i> | |
| Andrews, Lewis Burton..... | May |
| Dickinson, Mary Emma..... | Nov. |
| Hinman, George Rex..... | Nov. |
| Hopkins, Horace Grant..... | Mar. |
| McCorn, William Alfred..... | Sep. |
| Strasenburgh, Frederick A..... | July |
| <i>Woman's medical college of New York infirmary</i> | |
| Justin, Helen Maria De Witt..... | May |
| Kuhlmann, Helene J. O..... | Aug. |
| <i>Wyoming county medical society</i> | |
| Kennedy, Samuel Smith..... | Oct. |
| <i>Schools in other states</i> | |
| <i>Illinois</i> | |
| <i>Bennett eclectic medical college, Chicago</i> | |
| <i>Indorsed by New York eclectic medical college</i> | |
| Harrison, George Edward..... | Oct. |
| <i>Hahnemann medical college and hospital, Chicago</i> | |
| <i>Indorsed by N. Y. homeopathic medical college and hospital</i> | |
| Dresser, Ellen Dell..... | Nov. |
| Guyott, Ezra John..... | Dec. |
| <i>Massachusetts</i> | |
| <i>Berkshire medical institute</i> | |
| <i>Indorsed by Bellevue hospital medical college</i> | |
| Starkweather, Charles F..... | Jan. |
| <i>Boston university, school of medicine</i> | |
| Fiske, Joanna Katrina Chamberlayne..... | Oct. |
| <i>Michigan</i> | |
| <i>University of Michigan</i> | |
| <i>Indorsed by Syracuse medical college</i> | |
| Osborne, Arthur..... | Dec. |
| <i>Ohio</i> | |
| <i>Eclectic medical institute, Cincinnati</i> | |
| <i>Indorsed by N. Y. eclectic medical college</i> | |
| Blackfan, Harry S..... | May |
| Gamble, Ellsworth..... | Dec. |
| <i>Cleveland homeopathic hospital college (now Cleveland university of medicine and surgery)</i> | |
| <i>Indorsed by N. Y. homeopathic medical college and hospital</i> | |
| Burch, John H..... | Mar. |

For registry in another county (concluded)

| NAME OF PHYSICIAN | Date |
|--|------|
| Pennsylvania | |
| <i>Jefferson medical college, Philadelphia</i> | |
| Indorsed by <i>Bellevue hospital medical college</i> | |
| Archibald, Charles Harvey | Feb. |
| Sedgwick, Henry Dean | Aug. |
| Spence, David Walter | Dec. |
| <i>Woman's medical college of Pennsylvania</i> | |
| Indorsed by <i>N. Y. eclectic medical college</i> | |
| Longshore-Potts, Anna M. | Oct. |
| Vermont | |
| <i>University of Vermont</i> | |
| Indorsed by <i>Bellevue hospital medical college</i> | |
| Shipman, Elliot Wadsworth | Mar. |
| Trigg, Henry Savory | Sep. |
| Schools in foreign countries | |
| Germany | |
| <i>Alexander university, Erlangen, Bavaria</i> | |
| Indorsed by <i>Bellevue hospital medical college</i> | |
| Goerss, Franz C. A. | July |
| Scotland | |
| <i>Royal college of physicians and surgeons, Edinburgh</i> | |
| Indorsed by <i>Bellevue hospital medical college</i> | |
| Beacom, Robert John | Nov. |
| Trenan, William Augustine Pitts | Ap. |

Summary of medical diplomas indorsed

Aug. 1, 1898—July 31, 1899

New York

| | |
|--|----|
| Albany medical college | 12 |
| Bellevue hospital medical college | 7 |
| College of physicians and surgeons, New York | 24 |
| Eclectic medical college of the city of New York | 2 |
| Long Island college hospital | 5 |
| N. Y. homeopathic medical college | 5 |
| N. Y. medical college and hospital for women | 6 |
| Niagara university, medical department | 1 |
| Syracuse university, medical department | 1 |
| University of Buffalo, medical department | 10 |
| New York university, medical department | 20 |
| Woman's medical college of New York infirmary | 2 |
| Certificates of Wyoming co. med. society | 1 |

Summary of medical diplomas indorsed (*cont'd*)*Other states***Illinois**

| | |
|---|---|
| Bennett eclectic medical college, Chicago | 2 |
| Hahnemann medical college and hospital, Chicago | 3 |

Maryland

| | |
|---|---|
| Baltimore university school of medicine | 1 |
| University of Maryland | 1 |

Massachusetts

| | |
|---------------------------------------|---|
| Berkshire medical college | 1 |
| Boston university, school of medicine | 1 |

Michigan

| | |
|-------------------------------------|---|
| Detroit homeopathic medical college | 1 |
| University of Michigan | 5 |

New Hampshire

| | |
|---------------------------|---|
| Dartmouth medical college | 1 |
|---------------------------|---|

Ohio

| | |
|---|---|
| Eclectic medical institute, Cincinnati | 2 |
| Homeopathic hospital college, Cleveland (now Cleveland univ. of medicine and surgery) | 2 |
| Medical dep't, University of Wooster, Cleveland | 1 |

Pennsylvania

| | |
|---|---|
| Eclectic medical college of Pennsylvania | 1 |
| Hahnemann medical college, Philadelphia | 1 |
| Homeopathic medical college of Pennsylvania | 1 |
| Jefferson medical college, Philadelphia | 3 |
| University of Pennsylvania | 2 |
| Woman's medical college, Philadelphia | 1 |

Vermont

| | |
|-----------------------|---|
| University of Vermont | 5 |
|-----------------------|---|

*Other countries***Canada**

| | |
|---------------------|---|
| McGill university | 1 |
| Victoria university | 1 |

Germany

| | |
|--------------------------------|---|
| Alexander university, Erlangen | 1 |
|--------------------------------|---|

Scotland

| | |
|---|---|
| Royal college of physicians and surgeons, Edinburgh | 2 |
|---|---|

Total**138**

Indorsement of dental diplomas, Aug. 1, 1898 — July 31, 1899

LAWS OF 1893, CH. 661 AS AMENDED BY LAWS OF 1895, CH. 626; 1896, CH. 297

On certificate of dental examiners

| NAME OF CANDIDATE | Date |
|--|------|
| New York | |
| <i>New York college of dentistry</i> | |
| Smith, Morris Hazard | May |
| Webster, Gerald Richardson | Ap. |
| Other states | |
| California | |
| California license. Certificate of recommendation from <i>California</i> <i>state board of dental examiners</i> | |
| Younger, William John | June |
| Georgia | |
| <i>Southern medical college, dental department, Atlanta</i> | |
| Duke, William John | Nov. |
| Illinois | |
| <i>Chicago college of dental surgery</i> | |
| Barnum, Harry Leon | Ap. |
| Good, Robert | July |
| Maryland | |
| <i>Baltimore college of dental surgery</i> | |
| White, Gordon | Ap. |
| <i>University of Maryland</i> | |
| Boyajian, Garabed | July |
| Connor, William H. | Ap. |
| Farriss, Charles Dixie | Sep. |
| Massachusetts | |
| <i>Harvard university, dental department</i> | |
| Woodberry, Harvey Warner | Nov. |
| Michigan | |
| <i>University of Michigan</i> | |
| Palmer, Byron Smith | Ap. |
| Ohio | |
| <i>Ohio college of dental surgery</i> | |
| Emminger, Allen Franklin | Mar. |
| McCarty, Frank McClellan | Sep. |

Indorsement of dental diplomas, Aug. 1, 1898—July 31, 1899

LAWS OF 1893, CH. 661 AS AMENDED BY LAWS OF 1895, CH. 626; 1896, CH. 297

For registry in another county

| NAME OF CANDIDATE | Date |
|---|------|
| New York | |
| <i>Dental society of the state of New York</i> | |
| Hill, Orville E..... | Oct. |
| <i>New York college of dentistry</i> | |
| Bowman, Sands Joseph..... | Mar. |
| Horton, Ira Daniel..... | Jan. |
| Smith, Frederick Richard..... | Nov. |
| Weeks, Leon Jabez..... | Ap. |
| <i>Transcript of registration in Albany co.</i> | |
| Winne, Walter Weston..... | Nov. |
| <i>Transcript of registration in Cortland co.</i> | |
| Smith, George H..... | Dec. |
| <i>Transcript of registration in Madison co.</i> | |
| Brownell, William Roswell (attached to censors' certificate)..... | Ap. |
| <i>Transcript of registration in Monroe co.</i> | |
| Crittenden, William T..... | Dec. |
| <i>Transcript of registration in New York co.</i> | |
| Lallee, Daniel J..... | Ap. |
| <i>Transcript of registration in Niagara co.</i> | |
| Gantz, Henry H..... | Mar. |
| <i>Transcript of registration in Schuyler co.</i> | |
| Hill, Homer H..... | Sep. |
| Other states | |
| Maryland | |
| <i>Baltimore college of dental surgery</i> | |
| Youngs, Andrew D..... | June |
| <i>University of Maryland</i> | |
| Dommett, Harry M..... | Feb. |
| Payne, Clyde Sylvanus..... | Sep. |
| Willis, Frank M..... | Aug. |
| Ohio | |
| <i>Ohio college of dental surgery</i> | |
| Windell, William Arthur..... | Aug. |
| Pennsylvania | |
| <i>Philadelphia dental college</i> | |
| Bowman, Arthur M..... | Jan. |
| Gross, Oscar Jerome..... | May |
| Hastings, William A..... | Dec. |
| Lyke, J. Hyatt..... | May |
| <i>University of Pennsylvania, dental department</i> | |
| Cush, John Joseph..... | June |
| Parry, Ira Warren..... | May |
| Saunders, Thomas Darwin..... | Feb. |
| Woodward, Wilber S..... | Sep. |

Summary of dental diplomas indorsed

Aug. 1, 1898 — July 31, 1899

New York

| | |
|--|---|
| Dental society of the state of New York | 1 |
| New York college of dentistry | 6 |
| Transcript of registration in Albany co. | 1 |
| Transcript of registration in Cortland co. | 1 |
| Transcript of registration in Madison co. | 1 |
| Transcript of registration in Monroe co. | 1 |
| Transcript of registration in New York co. | 1 |
| Transcript of registration in Niagara co. | 1 |
| Transcript of registration in Schuyler co. | 1 |

Other states

| | |
|---|----|
| California | |
| California license | 1 |
| Georgia | |
| Southern medical college, dental department | 1 |
| Illinois | |
| Chicago college of dental surgery | 2 |
| Maryland | |
| Baltimore college of dental surgery | 2 |
| University of Maryland | 6 |
| Massachusetts | |
| Harvard university, dental department | 1 |
| Michigan | |
| University of Michigan | 1 |
| Ohio | |
| Ohio college of dental surgery | 3 |
| Pennsylvania | |
| Philadelphia dental college | 4 |
| University of Pennsylvania | 4 |
| Total | 39 |

Indorsement of veterinary diplomas, Aug. 1, 1898 — July 31, 1899.

LAWS OF 1893, CH. 661, § 179 AS AMENDED BY LAWS OF 1895, CH. 860

Matriculates in New York state veterinary medical schools before July 1, 1896**Group 1, New York schools; group 2, schools in other states; group 3, schools in foreign countries.**

| NAME OF CANDIDATE | Date |
|--|------|
| New York | |
| <i>American veterinary college</i> | |
| Lowe, William Herbert..... | Sep. |
| <i>New York college of veterinary surgeons</i> | |
| Doyle, William James..... | Aug. |

Indorsement of veterinary diplomas, Aug. 1, 1898 — July 31, 1899

LAWS OF 1893, CH. 661 AS AMENDED BY LAWS OF 1895 § 181

*For registry in another county***Group 1, New York schools; group 2, schools in other states; group 3, schools in foreign countries.**

| NAME OF CANDIDATE | Date |
|--|------|
| New York | |
| <i>American veterinary college</i> | |
| Hunt, Frederick Wilcox..... | Ap. |
| Shultz, Clarence R..... | Nov. |
| <i>Columbia veterinary college</i> | |
| Waters, Robert Edward..... | July |
| <i>New York college of veterinary surgeons</i> | |
| Provoost, Josiah W..... | Ap. |
| <i>Transcript of registration in Clinton co.</i> | |
| Jones, William Franklin..... | Sep. |
| <i>Transcript of registration in Kings co.</i> | |
| Stewart, George Frances..... | Nov. |
| <i>Transcript of registration in Oneida co.</i> | |
| Cleveland, William A..... | Ap. |
| <i>Transcript of registration in Oswego co.</i> | |
| Taylor, William H..... | June |
| Other countries | |
| Canada | |
| <i>Ontario veterinary college</i> | |
| Switzer, William B..... | Mar. |

Summary of veterinary diplomas indorsed

Aug. 1, 1898—July 31, 1899

New York

| | |
|---|---|
| American veterinary college | 3 |
| Columbia veterinary college | 1 |
| New York college of veterinary surgeons | 2 |
| Transcript of registration in Clinton co. | 1 |
| Transcript of registration in Kings co. | 1 |
| Transcript of registration in Oneida co. | 1 |
| Transcript of registration in Oswego co. | 1 |

Other countries

Canada

| | |
|----------------------------|---|
| Ontario veterinary co. ege | 1 |
|----------------------------|---|

 11

Certified public accountant

During the year ending July 31, 1898, one C. P. A. certificate was issued without examination under the requirements of rule 4. Yalden, James

BUSINESS SCHOOLS

Registered

Albany business college, Albany
 Brooklyn Bryant and Stratton business college, Brooklyn
 Bryant and Stratton business college, Buffalo
 Eastman, Poughkeepsie
 Heffley school, Brooklyn
 Long Island business college, Brooklyn
 New York business institute, New York
 Rochester business institute, Rochester
 Packard school, New York
 Troy business college, Troy
 Browne's Brooklyn business college, Brooklyn

Provisionally registered

Auburn school of business, Auburn
Elmira school of commerce, Elmira
Hornell business school, Hornellsville
Cortland business institute, Cortland
Lowell school of business, Binghamton
Meads's business training school, Syracuse
Niagara business school, Niagara Falls
Ramsdell school of business and shorthand, Middletown
The Henley, Syracuse
Utica business institute, Utica
Warner's Elmira business school, Elmira
Westbrook commercial academy, Olean
Mount Vernon business school, Mount Vernon
Dakins' business institute, Syracuse
The Miller school, 1133 Broadway, New York

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University of the State of New York

College Department

INCLUDING UNIVERSITIES, PROFESSIONAL AND TECHNICAL SCHOOLS

Bulletin 4 October 1899

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FOR THE

Academic year 1899

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PREFACE

Heretofore all question papers used at examinations conducted by the University, including those set for academic, professional and technical tests, have been published in the same volume. The papers for 1899 are divided into high school and college tests and are put out in separate bulletins.^a This bulletin contains the professional and technical tests, including those prescribed by law for license to practise medicine, dentistry and veterinary medicine, and for certified public accountants; those used in the Library school in connection with the state library where librarians, assistants and cataloguers receive professional training; and those required for state business credentials.

The professional and technical examinations prescribed by law are conducted by officers of the University, but the answer papers, numbering about 10,000 annually, are rated by boards of examiners appointed by the University and composed exclusively of members of the profession concerned. There are three public accountant examiners, 21 medical examiners (representing in boards of seven the old school, the homeopaths and the eclectics), eight dental examiners and five veterinary examiners.

Question papers in medicine, dentistry, veterinary medicine and public accounting are prepared by the several boards of professional examiners and are edited by members of the University staff. Question papers for the library and business examinations are prepared, like those for the academic tests, by officers and regular employees of the University.

Under the medical licensing law, 4808 physicians have been examined, of whom 3722, or 77.5% have received licenses; under the dental licensing law, 916 candidates have been examined, of whom

^a Recent editions of the papers for 1898 are published separately.

712, or 77.7% have received licenses; under the veterinary licensing law, 67 have been examined of whom 30, or 44.7% have received licenses.^a

Since the act regulating the profession of public accountant took effect, 35 candidates have been examined, of which number 21, or 60% have been successful. 119 C.P.A. certificates have been issued under the exemption in laws of 1896, ch. 312.

JAMES RUSSELL PARSONS JR

Director College department

^a In these statistics each candidate who fails is counted as often as examined.

Tuesday, September 27, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Mention the bones that form the cranium.
- 2 Describe the tibia.
- 3 What is *Poupart's ligament* and where is it located?
- 4 Describe the sternocleidomastoid muscle, giving its most important relations.
- 5 Give a description of the hip-joint.
- 6 What vessels form the portal vein?
- 7 Describe the mucous membrane of the stomach.
- 8 Mention the blood-vessels of which the following arteries are branches: (a) temporal, (b) lingual, (c) posterior inferior cerebellar.
- 9 Give the nerve supply of the muscles of the forearm.
- 10 Give the gross anatomy of the liver.
- 11 Describe the spermatic cord.
- 12 What muscles are involved in the production of talipes equinovarus?
- 13 Describe the larynx.
- 14 Mention and bound the regions of the abdomen.
- 15 A bayonet is thrust into a male adult in an erect posture; it enters at right angles to the body, one inch above the pubes, and is fixated in the spine. Mention the structures pierced from without inward.

Tuesday, January 24, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Mention and describe the bones of the carpus.
- 2 Give the names of the muscles of the thigh and state the origin, insertion and action of any one of the muscles mentioned.
- 3 How is Poupart's ligament formed? What purpose does it serve?
- 4 Give the origin and describe the course of the pulmonary arteries.
- 5 What veins form the portal system?
- 6 Describe the circle of Willis.
- 7 What organs are contained in the right hypochondriac region?
- 8 Describe the duodenum.
- 9 Give the general anatomy of the liver.
- 10 Describe the corpus callosum and its connections.
- 11 What are the *lymphatic glands*? Where are the most important lymphatic glands situated?
- 12 Describe the structure of the kidneys.
- 13 Mention the valves of the heart and give their location.
- 14 Give the reflections of the peritoneum.
- 15 What is the *diaphragm*? Where is it situated? Mention the principal openings in the diaphragm.

Tuesday, April 4, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Describe a transverse section of a long bone.
- 2 Give *three* general classifications of joints and mention an example of each class.
- 3 Describe the scapula.
- 4 Give the topographic anatomy of the axilla.
- 5 Mention the principal branches of the celiac axis.
- 6 Give the formation, course and relation of the portal vein.
- 7 Give the origin, insertion, use and nerve supply of any *one* of the following muscles: buccinator, gluteus maximus, gastrocnemius.
- 8 Give the course and termination of the thoracic duct.
- 9 Give the relations of the pancreas.
- 10 Describe the external abdominal ring.
- 11 Give the gross anatomy of the liver.
- 12 Mention the coverings of the brain. Describe *one* of these coverings.
- 13 Describe the seventh cranial nerve.
- 14 Mention the cartilages of the larynx and describe their arrangement.
- 15 Describe the prostate gland and give its relations to the perineum and to the rectum.

Tuesday, May 16, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Describe the bony pelvis.
- 2 What are *secreting glands*? Give their forms.
- 3 Describe the skin and its appendages.
- 4 Bound the popliteal space. Mention its contents.
- 5 Describe the elbow-joint.
- 6 What are the constituent elements of the spermatic cord?
- 7 Give the location of the principal groups of lymphatic glands.
- 8 What arteries unite to form the basilar artery?
- 9 Describe human blood.
- 10 Give a description, including the anatomic relations, of any *one* of the following muscles: pectoralis major, deltoid, sternocleidomastoideus.
- 11 Where does the large intestine begin? Describe its divisions, course and termination.
- 12 Describe the ovaries and state their anatomic relations to the uterus.
- 13 Describe the azygos veins.
- 14 Give the anatomy of the gall-bladder.
- 15 A bullet fired at right angles to the erect body passes in at the ensiform cartilage and is lodged in the spine without being diverted; mention in order the structures pierced.

College Department
45th Medical Examination

No.
Board
Place

ANATOMY

Tuesday, June 13, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Describe endothelium.
- 2 Mention the salivary glands and their ducts. **State where these ducts open.**
- 3 Describe the bones of the carpus.
- 4 What are the *valvulae conniventes*? **Where are they found and how are they formed?**
- 5 Give the anatomy of the hip-joint.
- 6 Describe the external carotid artery.
- 7 What muscles form the calf of the leg? **Describe any one of these muscles.**
- 8 Describe the olfactory nerves as to (a) origin, (b) function, (c) distribution.
- 9 What blood-vessels pass to and from the liver?
- 10 Describe the male urethra and state its divisions.
- 11 Give the general structure of the kidney.
- 12 Describe the great omentum.
- 13 Give the gross anatomy of the lungs.
- 14 Describe the thyroid gland.
- 15 What features of the bony skeleton determine sex?

PHYSIOLOGY AND HYGIENE

No.

Board

Place

Tuesday, September 27, 1898—1.15 to 4.15 p. m., only.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What are the physiologic characteristics of protoplasm?
- 2 Describe cell growth.
- 3 In how many forms does cartilage exist? What are the functions of cartilage?
- 4 Describe hemoglobin and mention its derivatives.
- 5 What causes the second sound of the heart?
- 6 Explain how variation in the rate and force of respiration affects the heart.
- 7 What are the products of gastric digestion?
- 8 What agencies cause the lymph to flow toward the point of its discharge in the body?
- 9 Describe the excretion of urine by the kidneys.
- 10 Give the cause and the order of occurrence of rigor mortis.
- 11 What constitutes (a) hard water, (b) soft water?
- 12 Mention the dangers of excessive shade about dwellings.
- 13 What is the present state of diphtheria antitoxin?
- 14 What evils arise from outside privy vaults? How may such evils be averted in cases where outside privy vaults can not be supplanted by more modern contrivances?
- 15 What is *milk sterilization* and how is it performed?

PHYSIOLOGY AND HYGIENE

Tuesday, January 24, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Describe the olfactory apparatus. What part of the olfactory apparatus is the seat of smell?
- 2 Is consumption communicable? Give reasons for your conclusion and offer hygienic suggestions.
- 3 What is the difference between secretion and excretion in glandular function? Give an illustration of each.
- 4 What is the physiology of the so-called rest-cure?
- 5 How is the descent of the testicle in the scrotum accomplished?
- 6 Describe the growth and the development of the teeth.
- 7 What is *metabolism*?
- 8 Give the function of (a) gastric juice, (b) synovial fluid, (c) succus entericus.
- 9 What is the condition of the eyeball in myopia? How may it be corrected?
- 10 What is *hypnotism*? What constitutes susceptibility in an hypnotic subject?
- 11 Indicate a proper diet in a case of (a) diabetes mellitus, (b) obesity, (c) early convalescence from typhoid fever.
- 12 What fruits are preferable in cases of habitual constipation?
- 13 Mention the effects of working in phosphorus, as in the manufacture of phosphorus matches. How can the dangers be limited or prevented?
- 14 What is the chief unsanitary condition of sea-going vessels?
- 15 What is the *bubonic plague*? What steps can be taken to limit or to extinguish such a scourge?

PHYSIOLOGY AND HYGIENE

Tuesday, April 4, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define physiologically the term *cell*. How are cells reproduced?
- 2 Give the principal location of the different varieties of epithelium.
- 3 Describe the physical characteristics of cartilage. What is *temporary cartilage*, *permanent cartilage*? Illustrate.
- 4 Describe the white blood-corpuscles, giving source, composition and properties.
- 5 What changes are produced in the air and in the blood by respiration?
- 6 Define *aphonia*, *aphasia*, *asphyxia*. Give the cause of any one of these conditions.
- 7 Describe normal heart sounds.
- 8 Describe the pancreatic juice, mentioning its ferments and stating their specific actions.
- 9 State the physiologic uses of the large intestine.
- 10 Define (a) tonic muscular contraction, (b) clonic muscular contraction. Give an example of each.
- 11 State the period of incubation in (a) *vaccinia*, (b) *parotitis*, (c) *pertussis*, (d) *varicella*, (e) *roetheln*.
- 12 How long does a diphtheria patient remain infective? How may it be proved that the infective period has ceased?
- 13 What is the best water for drinking purposes? Describe an emergency water-filter.
- 14 How may milk be the means of transmitting the germs of typhoid fever?
- 15 Describe a process of disinfecting an infected hospital ward.

PHYSIOLOGY AND HYGIENE

Tuesday, May 16, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *human physiology*.
- 2 How is adipose tissue developed? What is its use?
- 3 What are the functions of the skin and its appendages?
- 4 Describe the physical appearance and characteristics of the blood. Compare arterial blood with venous blood.
- 5 Describe lymph and state its uses.
- 6 Define *myopia, hypermetropia, astigmatism*. State the cause of each of these conditions.
- 7 What are *peptones*? How are they formed?
- 8 What is the physiologic function of the liver?
- 9 How should a ship be disinfected in case of cholera?
- 10 How does over-exertion affect the body tissues?
- 11 What hygienic precautions should be taken in treating a case of *phthisis pulmonalis*?
- 12 Describe a process for purifying water.
- 13 What sanitary steps should be taken for the protection of public health in the treatment and management of scarlet fever, smallpox and diphtheria?
- 14 Describe the essential features of a satisfactory system of house sewerage.
- 15 State the value of public baths to the health of a large city.

PHYSIOLOGY AND HYGIENE

Tuesday, June 13, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What is the composition of urine? Give the normal reaction and the specific gravity of urine.
- 2 Describe the temporary and the permanent teeth.
- 3 Give the physiology of menstruation and describe the menopause.
- 4 Through what mediums is the blood relieved of effete matter and provided with new material?
- 5 Describe the function and secretions of the stomach.
- 6 What is the normal body temperature? How is it regulated and sustained?
- 7 State where in the human economy the following substances are found: fibrin, mucin, chondrin, leucin, hippuric acid.
- 8 What stimuli produce muscular contraction? What is the nervous mechanism of muscular contraction? Illustrate.
- 9 Define *stammering* and state what causes it.
- 10 Define and describe *respiratory rhythm, respiratory sounds*.
- 11 How should an apartment be disinfected after an infectious disease?
- 12 Define *epidemic, endemic*. Do endemic diseases ever become epidemic?
- 13 How may the spread of tuberculosis be prevented by public health administration?
- 14 What should be the characteristics of potable water? What amount of solid matter is permissible in potable water?
- 15 How are pathogenic micro-organisms conveyed? What means can be taken to prevent their introduction into the system?

Wednesday, September 28, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Mention the substances called halogens. Why are they so called?
- 2 State the properties of potassium. Mention 10 potassium compounds of importance in medicine.
- 3 Define *specific gravity*. Give a method of determining the specific gravity of a solid substance insoluble in water.
- 4 State (a) the law of definite proportions, (b) the law of multiple proportions.
- 5 Give the chemical name, properties and uses of tartar emetic.
- 6 In what part of the body is sulfur found?
- 7 What kind of albumin is found in morbus Brightii? What properties render it readily detectable?
- 8 What is the chemical treatment for carbolic acid poisoning?
- 9 How is chlorinated lime made? What is the principal use of chlorinated lime?
- 10 What chemical change takes place when a photographic plate is exposed to daylight?
- 11 To what class of organic compounds does glycerin belong? From what source is glycerin obtained?
- 12 What is the difference between an alcohol and a phenol? Illustrate.
- 13 What are *carbohydrates*? Into what *three* groups are these compounds usually divided?
- 14 Define *alkaloid* and give an example.
- 15 In what principal form is nitrogen eliminated from the human body?

College Department

42d Medical Examination

CHEMISTRY

No.

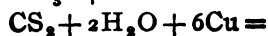
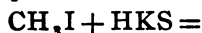
Board

Place

Wednesday, January 25, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *chemistry*, *molecule*, *physical change*, *chemical change*.
- 2 State the atomic theory.
- 3 Give the properties and uses of bromin.
- 4 State the valence of the following radicals: (CN), (HO), (NO₂), (CO), (HC).
- 5 Give the composition of atmospheric air. Define *humidity of the atmosphere*.
- 6 Give the names and formulas of *three* sodium salts.
- 7 How is ferric chlorid made? Give the chemical equation.
- 8 Give in detail a test for arsenic in a mixture of food taken from the stomach.
- 9 Define *allotropism*. Mention the allotropic forms of (a) carbon, (b) sulfur.
- 10 Give the average amount and the composition of normal urine voided by an adult in 24 hours.
- 11 How is iodoform made? What are the properties of iodoform?
- 12 What is the formula of chloroform? State how chloroform is prepared.
- 13 Give the chemistry of acetic acid and mention the most important acetates.
- 14 Mention *five* alkaloids and give the derivation of each.
- 15 Complete the following equations:



College Department

43d Medical Examination

No.

Board

Place

CHEMISTRY

Wednesday, April 5, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Describe and illustrate the distinction between organic and inorganic compounds.
- 2 Give the chemical composition of (a) Glauber's salt, (b) Epsom salt, (c) Rochelle salt.
- 3 What is an *element*? Into what *two* principal groups are elements divided? Mention *five* elements that exist uncombined in nature.
- 4 Mention the acid constituent of (a) the gastric juice, (b) the urine, (c) the bile.
- 5 What is *hemoglobin*? On what does its color depend?
- 6 How is the amount of the phosphates and of the chlorids of the urine estimated?
- 7 Differentiate nitrates and nitrites. Mention *two* compounds of each group commonly used in medicine.
- 8 What reaction takes place when chloral hydrate is mixed with an alkali? Illustrate.
- 9 What is *acetic acid*? What is the source of acetic acid? In what forms does acetic acid appear?
- 10 What salt of mercury is soluble in water? Give the name and formula of a salt of silver used in medicine.
- 11 Describe a test for detecting the presence of strychnin.
- 12 What is a *hydrocarbon*? What is a *sugar*?
- 13 Give in detail the process of making sulfuric acid by the aid of heat and nitric acid.
- 14 What is the *faradic current*? How is it produced?
- 15 What is *synthesis*? Mention *three* coal tar products extensively used in medicine that are prepared in the chemical laboratory by synthesis.

Wednesday, May 17, 1899—9.15 a. m. to 12 15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Differentiate a mass of matter, a chemical compound and an elementary body.
- 2 Explain the following terms: *chemical reaction*, *alkalin reaction*. Define *specific gravity*.
- 3 Describe a process for generating hydrogen. What are the properties of hydrogen?
- 4 Describe some method for (a) the analysis of water, (b) the synthesis of water.
- 5 State the chemical properties of carbon. Describe *two* allotropic forms of carbon.
- 6 Mention the principal constituents of (a) bone, (b) muscle, (c) hair.
- 7 How is the air of an apartment tested to determine the presence and amount of carbon dioxide in it?
- 8 Give the names and formulas of the salts of iron commonly used in medicine.
- 9 Mention *two* salts of mercury commonly used in medicine. Give their formulas.
- 10 Give a test for recognizing sugar in urine, explaining the chemical changes occurring.
- 11 What is *glycerin*? State its method of preparation and give its properties.
- 12 What conditions favor putrefaction? What conditions may prevent putrefaction in dead organisms?
- 13 Give the source, character and uses of atropin. Describe the symptoms of poisoning by atropin.
- 14 Give the composition and properties of common alum.
- 15 What is the composition of gall-stone?

College Department

No.

45th Medical Examination

Board

CHEMISTRY

Place

Wednesday, June 14, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 State the conditions favorable to crystallization.
- 2 What temperature Fahrenheit is equivalent to a temperature of 28° centigrade? What temperature centigrade is equivalent to a temperature of 120° Fahrenheit?
- 3 Write a prescription for the administration through the mouth of chlorin gas dissolved in water.
- 4 Define *atom*, *molecule*, *element*, *compound*, *chemistry*.
- 5 Give the names of *two* elements or radicals in *each* of the following groups: univalent, bivalent, trivalent, quadrivalent.
- 6 Illustrate the comparative significance of the following affixes: *ous*, *ic*, *ite*, *ate*.
- 7 Compare ozone with oxygen as to (a) occurrence, (b) properties.
- 8 State the characteristics of the following mineral waters: chalybeate waters, bitter waters, sulfur waters, effervescent waters, cathartic waters.
- 9 What is the antidote for nitric acid poisoning?
- 10 Describe the preparation of iodid of potassium. Give the reaction.
- 11 Describe lithium as to (a) occurrence, (b) salts commonly used in medicine, (c) chemistry of its use in so-called rheumatic affections.
- 12 Mention the important physical, physiologic and chemical properties of ptomains.
- 13 What are the chemical constituents of normal urine? Give a test for the recognition of albumin in urine.
- 14 State the general properties and mention the component elements of proteids.
- 15 State the principle underlying the use of antitoxins for the prevention or cure of disease.

Wednesday, September 28, 1898—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Give *two* methods of producing local anesthesia.
- 2 Describe the dislocation of the acromial end of the clavicle. Give the treatment and state its usual result.
- 3 Describe ligation of the lingual artery.
- 4 Give the treatment of fracture of the middle third of the femur in a child two years of age.
- 5 Give the etiology, diagnosis and treatment of senile gangrene.
- 6 What is *glaucoma*? Give the treatment of glaucoma.
- 7 Give the symptoms and diagnosis of stone in the ureter.
- 8 Give a diagnosis of traumatic fever.
- 9 Mention the varieties of wounds that require drainage and give the usual methods of drainage.
- 10 Mention *two* dangerous complications common to chloroform or ether anesthesia and give symptoms and treatment.
- 11 Give the causes, symptoms and treatment of periostitis of the lower jaw.
- 12 What are the symptoms of a communication between the femoral artery and vein, as the result of trauma? Give the treatment.
- 13 Describe cholecystotomy. Give indications for this procedure.
- 14 Give the diagnosis and treatment of carcinoma mammae.
- 15 Describe an operation for the radical cure of inguinal hernia.

Wednesday, January 25, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 Describe varieties of hemorrhoids and indicate the treatment of any one variety.

2 Give the treatment necessary to restore suspended animation in a person suffering from extreme syncope caused by an anesthetic.

3 What are the symptoms of systemic inoculation from a dissection wound? Give the treatment of such inoculation.

4 What symptoms following injury to the head make trephining advisable? Give (a) the preliminary procedure, (b) the operative procedure.

5 What are the causes of acute prostatitis? Describe a typical case of acute prostatitis and give the treatment.

6 Describe an operation for cure of aneurism of the femoral artery.

7 Make a differential diagnosis of bilious colic and right-sided renal colic.

8 Give the symptoms and treatment of dislocation of the lower jaw.

9 What is the operative treatment for persistent epistaxis?

10 Outline a method of resuscitation from drowning.

11 Give directions for applying a plaster of Paris dressing for fixation purposes in case of fracture.

12 Describe an operation for amputation of the thigh.

13 Arrange a grouping showing (a) principal benign tumors, (b) principal malignant tumors.

14 Describe a chancroid. Give its usual symptoms and possible complications.

15 Describe an operation for extirpation of the uterus and its appendages.

Wednesday, April 5, 1899—1.15 to 4.15 p. m., only.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Differentiate traumatic fever, septic fever and pyemia.
- 2 Give the general principles of antiseptic wound treatment.
- 3 What fractures do not present mobility? Under what circumstances is crepitus absent?
- 4 How are dislocations distinguished from fractures?
- 5 Describe the osseous lesions of syphilis.
- 6 Describe oblique inguinal hernia and give its treatment.
- 7 Give the diagnosis, prognosis and treatment of a simple case of stone in the male bladder.
- 8 Give the etiology, diagnosis and treatment of tetanus.
- 9 Describe talipes equinus and give its treatment.
- 10 Give the symptomatology, diagnosis and treatment of adenoma of the nasopharynx.
- 11 Describe an approved method for the administration as a general anesthetic of (a) ether, (b) chloroform.
- 12 Give the diagnosis, prognosis and treatment of morbus coxarius.
- 13 What is a *tumor*? State the causes of tumors. Define *homologous tumor*, *heterologous tumor*.
- 14 Give the symptoms indicative of cataract. Describe the operation for extraction of cataract.
- 15 Mention *three* of the most common diseases of the Fallo-pian tubes and give the technic of the surgical treatment of any *one* of the three diseases mentioned.

Wednesday, May 17, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Describe active congestion, passive congestion. State their points of difference.
- 2 Give the treatment of fracture of the ribs.
- 3 Make a diagnosis of fracture of the base of the skull. Give the indications for trepanning the skull and describe the operation.
- 4 Give the differential diagnosis of dislocation of the hips and intracapsular fracture. Outline the treatment of each injury.
- 5 Describe the ligation of the femoral artery at any selected point.
- 6 Describe a hernial sac. Give the method of its formation.
- 7 Give the diagnosis, treatment and complications of stricture in the spongy urethra.
- 8 Mention the causes and give the treatment of mammary abscess.
- 9 Give the diagnosis and treatment of genu valgum.
- 10 Describe a method of skin-grafting. Under what conditions is skin-grafting employed?
- 11 Give the treatment of tubercular disease of the knee-joint in children.
- 12 Make a differential diagnosis of hydrothorax and empyema. Give the treatment of each.
- 13 Describe tracheotomy. When is tracheotomy indicated?
- 14 Give the diagnosis, prognosis and treatment of ophthalmia neonatorum.
- 15 What is the usual site of a vulvovaginal abscess? Give the symptoms and treatment.

College Department
45th Medical Examination
SURGERY

No.
Board
Place

Wednesday, June 14, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Give the causes of inflammation. Describe the various stages of inflammation.
- 2 Define *shock*. Give its causes and symptoms.
- 3 Mention the different kinds of displacement in fracture. In what directions does the line of fracture extend in the case of the long bones?
- 4 What is a *dislocation*? Define the various kinds of dislocation.
- 5 Describe periostitis.
- 6 Give the causes of abdominal hernia. What are its common seats?
- 7 What are the general characteristics of syphilitic skin eruptions? Describe the mucous patch.
- 8 Give the differential diagnosis of malignant and non-malignant breast tumors.
- 9 Describe the common forms of club-foot. Give the treatment of one form.
- 10 What is *harelip*? Give the treatment of harelip.
- 11 Describe the preparation of patients for the administration of a general surgical anesthetic. Give the treatment of possible resultant asphyxia and syncope.
- 12 Under what circumstances should an artery be ligated in its continuity? What instruments are required for the operation?
- 13 What general principles govern the diagnosis of a tumor?
- 14 Describe an approved method for the removal of foreign bodies from the ear.
- 15 Give in detail a systematic method of digital and bimanual examination of the pelvic organs of the female.

Thursday, September 29, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define and differentiate *position*, *presentation*, *rotation*.
- 2 Mention the subjective and the objective signs of pregnancy, giving their respective values.
- 3 What are some of the essential causes of sterility in woman and what can be done to remove them?
- 4 What are the dangers of precipitate labor and how may they be averted?
- 5 Differentiate the terms abortion, miscarriage and premature labor, applying them to the three trimesters of pregnancy.
- 6 State how a face presentation may be recognized and rectified.
- 7 Define the terms *eutocia* and *dystocia*, giving instances of the latter.
- 8 What are the usual symptoms of post-partum hemorrhage? How should post-partum hemorrhage be treated?
- 9 How should asepsis and antiseptics be applied in obstetric practice?
- 10 What conditions serve to jeopardize the perineum in labor? State how the perineum should be guarded and how it should be treated if lacerated.
- 11 How may imperforate hymen with long retained menstrual fluid be recognized and treated?
- 12 What are the several varieties of version and when do they become perfectly available in labor?
- 13 Mention the varieties of placenta praevia, and make a differential diagnosis of these varieties.
- 14 Define *puerperal sepsis* and state its causes, prophylaxis and treatment.
- 15 Define *ectopic gestation*, giving its symptoms and management.

Thursday, January 26, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Give an anatomic description of the internal organs of generation in the female, mentioning their functions and describing the changes in the uterine mucosa that follow fecundation.
- 2 Describe the fertilization of the ovum and its early development.
- 3 Mention the most essential causes of sterility in woman and state how fertility may be promoted.
- 4 Describe the mechanism of labor in the first position (L. O. P.).
- 5 Differentiate eutocia and dystocia. Mention important varieties of the latter and give their management.
- 6 Classify the subjective and the objective signs of pregnancy, and state the relative value of each sign and group.
- 7 Describe the application of the forceps in the superior strait, giving precautions to be observed in the delivery of the fetus in such a case.
- 8 Describe the proper management of the third stage of labor.
- 9 Define *asepsis* and *antisepsis*, and differentiate the terms. State the obstetric application of each.
- 10 Mention the principal sources of puerperal sepsis, and give details of prevention and of treatment.
- 11 Mention the principal causes of post-partum hemorrhage, and state the details of prevention and of management.
- 12 Define *version*, state the conditions under which it should be employed and show how it should be performed.
- 13 Make a diagnosis of the position of the fetus in utero at term by external (not bimanual) palpation.
- 14 Define *puerperal eclampsia* and give its etiology, prognosis and treatment.
- 15 Mention the causes and symptoms of uterine inertia, and give the details of management in such cases.

Thursday, April 6, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 What are the diameters of the pelvic outlet? How is the pelvic outlet bounded?

2 How may a diagnosis be made between a first pregnancy and subsequent pregnancies? How is the date of confinement calculated?

3 Describe the size, structure and vitality of the fetus at the end of the fifth month. What are the objective signs of pregnancy at this period?

4 Labor having begun, how by abdominal examination could a vertex presentation be recognized?

5 What is the *liquor amnii*? Give its functions in pregnancy and during labor.

6 Give symptoms which indicate the probable death of the fetus in utero.

7 What pathologic conditions are often mistaken for pregnancy? How is a diagnosis to be established?

8 Describe albuminuria as met with in pregnancy. Give the causes, symptoms and treatment.

9 Give the formation of the caput succedaneum. Where does the caput succedaneum appear in the third position?

10 Give the diagnosis of face presentation (*a*) before rupture of the membranes, (*b*) after rupture of the membranes.

11 Make a differential diagnosis of intra-uterine hemorrhage and extra-uterine hemorrhage.

12 What are *after-pains*? Give the causes of post-partum hemorrhage.

13 Give the causes, symptoms, diagnosis, prognosis and treatment of rupture of the uterus.

14 Under what conditions should craniotomy be performed? Describe the operation.

15 What is *phlegmasia alba dolens*? Give treatment.

College Department

44th Medical Examination

OBSTETRICS

No.

Board

Place

Thursday, May 18, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 Describe, anatomically, the external organs of generation in woman and mention the function of each organ.

2 Give a physiologic description of the phenomena of fecundation.

3 Make a diagnosis of pregnancy at or before the end of the third month.

4 How may a twin labor be recognized? What complications may arise during its course and how should such complications be managed?

5 When may the forceps become advisable? How should they be applied and what cautions should be observed in their application?

6 How is the umbilic cord formed? Mention its anatomic characteristics and state how it should be ligated.

7 Describe the classic Caesarean section and the Säger and Porro modifications of this section.

8 What may be learned by abdominal palpation of the pregnant woman after the eighth month?

9 Give a description of cystocele and rectocele. State how each may complicate labor and what should be done in the arising contingency.

10 Mention the complications of labor that may justify abdominal section and describe the technic of the operation.

11 In case eclampsia gravidarum appears before the end of the eighth month how should it be managed?

12 How may ophthalmia neonatorum be (a) recognized, (b) prevented, (c) treated?

13 Mention the indications for the axis traction forceps and describe their application.

14 Under what conditions may the induction of premature labor (child viable) become justifiable and how should it be performed?

15 Define *ectopic pregnancy*. Give the symptoms of rupture at or before the 14th week and state the proper management of such a condition.

Thursday, June 15, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Give a physiologic description of the phenomena of menstruation.
- 2 What is *insemination* and how is it accomplished?
- 3 What are the differences between the male pelvis and the female pelvis?
- 4 Describe the management in detail in case of adherent placenta after delivery of the fetus at term.
- 5 Make a differential diagnosis of pregnancy at the fifth month and pelvic tumors.
- 6 Give the etiology, symptoms and management of the albuminuria of pregnancy.
- 7 How may rupture of the uterus during labor be recognized? How should it be managed?
- 8 State the causes and management of delayed labor in the first stage.
- 9 When may symphyseotomy become an appropriate alternative as an obstetric operation and how should this operation be performed?
- 10 Give the pathology, symptoms and management of puerperal phlebitis.
- 11 What is the difference in significance and management between usual so-called morning sickness and the hyperemesis of pregnancy?
- 12 What is the pathology of hydrocephalus? How may hydrocephalus be recognized and treated?
- 13 What may cause premature rupture of the membranes? How may this rupture influence the progress and conduct of labor?
- 14 How may the perineum become jeopardized in labor? How should it be guarded to prevent rupture? What should be done in case it is torn?
- 15 How may trunk presentation be recognized and managed?

PATHOLOGY AND DIAGNOSIS

Thursday, September 29, 1898—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define and illustrate (a) *myomata*, (b) *neuromata*, (c) *angiomata*.
- 2 What is *cretinism* and with what is it associated?
- 3 How should sputum be examined for tubercle bacilli? Describe a tubercle bacillus.
- 4 What is *infective inflammation*? How does it differ from simple inflammation?
- 5 Give the morbid anatomy of acute croupous pneumonia.
- 6 What tissue changes characterize interstitial nephritis?
- 7 Give the causes and process of cerebral softening.
- 8 Describe the rash and give the morbid anatomy of scarlatina.
- 9 Differentiate the crepitant râles and the subcrepitant râles, and give the clinical significance of each.
- 10 What are the *bullous eruptions*? Mention the varieties.
- 11 Give the manifestations of hereditary syphilis.
- 12 What is *bronchial breathing*? What conditions produce bronchial breathing?
- 13 Make a diagnosis of aneurism of the descending aorta.
- 14 Differentially diagnose morbus coxarius and sciatica.
- 15 Make a differential diagnosis of pleuritic and pericardial effusion.

PATHOLOGY AND DIAGNOSIS

Thursday, January 26, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What is *ischemia*? Give its causes.
- 2 Give the causes and the result of cerebral thrombosis.
- 3 What is *pyemia*? Give its clinical manifestations.
- 4 Give the varieties and the general histology of sarcomata.
- 5 Describe the pathologic changes in the three stages of acute lobar pneumonitis.
- 6 What are the structural changes in the spinal cord in locomotor ataxia? Give the clinical history of the disease.
- 7 What are the secondary heart changes in chronic mitral disease?
- 8 Give the pathology and the varieties of goiter.
- 9 What changes occur in the kidneys in chronic productive nephritis?
- 10 What are the characteristic lesions of typhoid fever? Give the pulse and the temperature chart.
- 11 Define *illusion*, *delusion*, *hallucination*. Give an example of each.
- 12 What diseases are liable to occur in the right iliac region?
- 13 Give the causes of hemoptysis.
- 14 Make a diagnosis of yellow fever by exclusion.
- 15 What is *uric acid*? What causes an increase of this acid in the urine and what is the clinical significance of such an increase?

PATHOLOGY AND DIAGNOSIS

No.

Board

Place

Thursday, April 6, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define and illustrate *bacilli*, *micrococci*, *spirilla*.
- 2 What changes in the mucous membrane occur in chronic bronchitis?
- 3 Give the pathologic features of angioleucitis (lymphangitis).
- 4 Mention the structural changes that occur in tubercular joints.
- 5 Give the possible causes of occlusion of the bile-duct.
- 6 What causes contribute to obesity? What tissues are most frequently invaded in obesity?
- 7 Mention the structural changes that occur in chronic inflammation of the middle ear.
- 8 Give the varieties and morbid anatomy of appendicitis.
- 9 Differentiate rheumatic and syphilitic iritis.
- 10 What would percussion and auscultation reveal in (a) the second stage of pneumonitis, (b) the first stage of pleuritis, (c) pronounced aneurism of the aorta?
- 11 Mention and illustrate diseases producing conditions of the skin that are of diagnostic value.
- 12 How may the source of the blood discharge in hematuria be ascertained?
- 13 Mention the characteristic differences between neurosal and cardiac dyspnoea.
- 14 What abnormal products does the urine contain in suppurative nephritis? Give the tests for the presence of these products.
- 15 Give the arguments for and against the use of X rays as an aid to diagnosis.

Thursday, May 18, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 What physical conditions favor the growth of bacteria? What are *ptomaines*?

2 Give an outline of the structural changes that occur in phthisis pulmonalis.

3 Describe pyuria and state its import.

4 Describe herpes zoster and give the pathology of this condition.

5 What are the lesions of endocarditis?

6 What are the complicating lesions in chronic productive nephritis?

7 Describe leucemia and mention the pathologic changes occurring in this disease.

8 What structural changes occur in rheumatoid arthritis?

9 Mention the syphilitic lesions of the brain and of the spinal cord.

10 How does a lymphoma differ from a sarcoma clinically and histologically?

11 Give a process for staining the gonococcus. How does the gonococcus appear under the microscope?

12 In what particulars may typhoid fever simulate cerebro-spinal meningitis?

13 Differentiate abscess of the liver and cancer of the liver.

14 Make a diagnosis of osteosarcoma.

15 In a typical case of diabetes mellitus what is the condition of the urine as to (a) specific gravity, (b) color, (c) odor, (d) quantity voided?

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What is a *thrombus*, an *embolus*? Describe the formation of each
- 2 What are the anatomic changes in mastoiditis?
- 3 Describe (a) cellulitis, (b) lymphangitis.
- 4 Describe the procedure in examining sputum for tubercle bacilli.
- 5 Give the clinical and the microscopic characteristics of fibrous carcinoma.
- 6 What is *traumatic infection*? How does it take place? How may it be avoided?
- 7 Describe fatty metamorphosis. What tissues are most prone to fatty degeneration?
- 8 Mention the pus producing bacteria.
- 9 Define the terms *malignant* and *benign* as applied to new formations.
- 10 What lesions of the nervous system are liable to produce glycosuria? Mention concomitant symptoms.
- 11 Make a diagnosis of incomplete inguinal hernia.
- 12 Give the characteristic lesions in tubercular laryngitis.
- 13 What is the significance of broncho-vesicular breathing?
- 14 Make a diagnosis of urticaria.
- 15 Give the symptoms indicative of impacted gall-stone.

Therapeutics, Practice and Materia Medica

Friday, September 30, 1898—9.15 a. m. to 12.15 p. m., only

in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What action on the heart has valerian in full doses? State the therapeutic uses of valerian.
- 2 Give the symptoms of (a) acute lead poisoning, (b) chronic lead poisoning.
- 3 Where is jalap indigenous? What part of it is used in medicine?
- 4 What are the therapeutic uses of juniper? In what cases is it contraindicated?
- 5 What is the practical import of hematuria and how can its source be diagnosed?
- 6 Mention the salts of silver used in medicine and give the dose of each.
- 7 Describe the therapeutic uses of (a) water, (b) mineral waters.
- 8 Give the etiology and treatment of scarlet fever.
- 9 Where is the cinnamon tree indigenous? Mention the active principle of cinnamon and give its dose.
- 10 What therapeutic uses has chloroform other than as an anesthetic?
- 11 Give the treatment of tic-douloureux.
- 12 What is the dose of tincture of belladonna, and what indications show that its physiologic effect has been obtained?
- 13 For what purposes and effects is strychnia frequently used in formulas for cathartics?
- 14 Give the symptoms and medical treatment of appendicitis.
- 15 Give the formula of normal salt solution.

Therapeutics, Practice and Materia Medica**Friday, January 27, 1899—9.15 a. m. to 12.15 p. m., only**

... in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What effect has pilocarpus on (a) the heart, (b) the skin, (c) the salivary glands?
- 2 Give the etiology and treatment of hematemesis.
- 3 Give the source, the physiologic action and the therapeutic uses of oleum ricini.
- 4 Describe the therapeutic uses and the dangers of chloral hydrate. How does a toxic dose of chloral hydrate affect the body temperature?
- 5 What is the source from which eserine is obtained? How and for what purpose is eserine principally used?
- 6 Give the causes and effects of obstruction of the ductus communis choledochus.
- 7 What is the source of lanolin? Describe the therapeutic uses of lanolin.
- 8 State the common name and give the composition of compound effervescing powder.
- 9 At what period of life does rachitis occur? Describe the treatment of rachitis.
- 10 Describe the treatment of cystitis.
- 11 What is the common name of guaiacum? What are the therapeutic uses of guaiacum?
- 12 Give the treatment of ulcer of the stomach.
- 13 Mention the official bromids.
- 14 Outline the treatment of acute dysentery.
- 15 What are the therapeutic uses of manganese?

Therapeutics, Practice and Materia Medica**Friday, April 7, 1899—9.15 a. m. to 12.15 p. m., only**

‘ . . . in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.’

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What are the therapeutic uses of alcohol?
- 2 How may cancer of the stomach and ulcer of the stomach be differentiated?
- 3 Mention the physiologic effects of bryonia. What is the dose of tincture of bryonia?
- 4 State the etiology and prophylaxis of biliary calculi.
- 5 Give indications for the internal use of bichlorid of mercury. State the dose of bichlorid of mercury for internal use.
- 6 State the dose of (a) aconitin, (b) picrotoxin.
- 7 Mention the therapeutic uses of croton-oil. What conditions contraindicate its internal administration?
- 8 Write a prescription containing a sedative and an expectorant, for a bronchial cough in a three year old child.
- 9 What are the principal therapeutic uses of the salts of lead?
- 10 Define *coccygodynia*. Give its symptoms and treatment.
- 11 Mention the symptoms of poisoning by phosphorus.
- 12 What is *chronic hydrocephalus*? Mention the varieties.
- 13 Explain the constipating action of opium.
- 14 Give the etiology and treatment of anthrax.
- 15 Give the composition and state the uses of *lotio hydrargyri flava*.

Therapeutics, Practice and Materia Medica

Friday, May 19, 1899—9.15 a. m. to 12.15 p. m., only

... in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. '661, § 146

Questions prepared by the Board of examiners representing the **Medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 In what pathologic conditions is jaborandi useful?
- 2 Give the treatment, other than surgical, of hemorrhoids.
- 3 What is the dose of carbolic acid for internal administration? What are the chemical antidotes for carbolic acid?
- 4 What serious results may ensue from indiscriminate use of acetanilid?
- 5 Give the dietetic treatment of diabetes mellitus with the rationale of the same.
- 6 What is *cascara sagrada*? State the dose of the fluid extract of *cascara sagrada*.
- 7 What is the common name of lactucarium? State the physiologic action of lactucarium.
- 8 Give the symptoms and treatment of true angina pectoris.
- 9 Mention the therapeutic uses of hydrocyanic acid.
- 10 What part of aconite is used in medicine? What is the alkaloid of aconite?
- 11 Write a prescription for corrosive sublimate to be used as a parasiticide.
- 12 What are the therapeutic uses of tincture of capsicum internally administered? State the dose of tincture of capsicum.
- 13 How is liquor ammonii acetatis prepared? In what conditions is this preparation useful?
- 14 Define *cholera nostras*. What treatment is indicated when this condition is present?
- 15 What is the physiologic action of colchicum?

Therapeutics, Practice and Materia Medica

Friday, June 16, 1899—9.15 a. m. to 12.15 p. m., only

in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Mention the principal therapeutic applications of antipyrin.
- 2 Give the treatment of an acute attack of gout.
- 3 What is the dose of curare for hypodermic use? What are the antagonists of curare?
- 4 What effect has nitrite of amyl on (a) the vascular system, (b) the action of the heart, (c) the respiration?
- 5 State the prognosis in aneurism of the thoracic aorta. What general object underlies the methods of non-operative treatment of aneurisms?
- 6 What is *codein*? State the dose of codein. What are the advantages of codein over opium?
- 7 Define *hemostatics*. Give *three* examples of hemostatics.
- 8 Give the treatment and prognosis of writers' cramp.
- 9 Mention the therapeutic uses of creosote.
- 10 What is the common name of hamamelis? State the dose of the fluid extract of hamamelis.
- 11 Describe the treatment of phlegmonous peritonitis.
- 12 What part of buchu is used in medicine? State the dose of the fluid extract of buchu.
- 13 State the therapeutic uses of arsenic (a) applied externally, (b) administered internally.
- 14 Describe the treatment of hemoptysis occurring in phthisis pulmonalis.
- 15 What is the official name of tartar emetic? State the dose of tartar emetic.

Therapeutics, Practice and Materia Medica**Friday, September 30, 1898—9.15 a. m. to 12.15 p. m., only**

' . . . in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Homeopathic medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Give the general action of apocynum cannabinum.
- 2 Give the head symptoms of iris versicolor.
- 3 In what genital diseases is agnus castus curative?
- 4 What is *phytolacca*?
- 5 Give *three* characteristics of kalium bichromicum.
- 6 In what diseases is ruta useful?
- 7 When should pulsatilla be prescribed for nasal catarrh?
- 8 Differentiate bromin and iodin in croup.
- 9 What are the sexual symptoms of selenium?
- 10 Differentiate the enteric symptoms of calcaria carbonica and calcaria phosphorica.
- 11 What is the characteristic cough of rumex crispus?
- 12 When should allium cepa be prescribed for neuralgia?
- 13 What is the chief use of sambucus nigra?
- 14 Give the indications for senna in infantile colic.
- 15 When should rhododendron be prescribed in rheumatism?

Therapeutics, Practice and Materia Medica

Friday, January 27, 1899—9.15 a. m. to 12.15 p. m., only

‘ . . . in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.’

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Homeopathic medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *angina pectoris*.
- 2 What remedies are useful in epistaxis?
- 3 Give the indications for *three* remedies curative in whooping-cough.
- 4 Describe the rash of scarlet fever.
- 5 Give the treatment of sunstroke.
- 6 When is rhododendron useful in rheumatism?
- 7 What are the chief medical uses of terebinthina?
- 8 Give the symptoms of orchitis. Mention *three* remedies curative in orchitis and give their indications.
- 9 Give the causes and symptoms of chlorosis.
- 10 What are the sexual symptoms of (a) cantharis, (b) staphisagria?
- 11 Give the pathognomonic symptoms of appendicitis.
- 12 Mention *three* remedies useful in infantile colic and give their indications.
- 13 Differentiate gastric ulcer and cancer.
- 14 Give the symptoms and treatment of carbolic acid poisoning.
- 15 What is the principal use of *senecio aureus*?

Therapeutics, Practice and Materia Medica**Friday, April 7, 1899—9.15 a. m. to 12.15 p. m., only**

' . . . in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Homeopathic medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 In what diseases is clematis erecta useful?
- 2 Mention diseases in which manganum is curative.
- 3 Make a differential diagnosis of gout and acute inflammatory rheumatism. Give the treatment of gout.
- 4 Describe the rest-cure and mention the diseases for which it is prescribed.
- 5 In what diseases is crotalus indicated?
- 6 Give the causes and symptoms of tetanus.
- 7 Differentiate the nasal symptoms of cyclamen and those of pulsatilla.
- 8 What symptoms are produced by gall-stones?
- 9 What is *kumiss*? Mention its therapeutic uses.
- 10 Describe an embolus and mention the symptoms produced by it.
- 11 In what diseases should sambucus be prescribed?
- 12 Give the symptoms and treatment of acute tuberculosis.
- 13 How should intestinal hemorrhage in typhoid fever be treated?
- 14 Describe the skin symptoms of mezereon.
- 15 Give the symptoms and treatment of ophthalmia neonatorum.

Therapeutics, Practice and Materia Medica

Friday, May 19, 1899—9.15 a. m. to 12.15 p. m., only

‘ . . . in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.’

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Homeopathic medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 When should arsenicum be given in eczema?
- 2 How should a case of jaundice be treated?
- 3 Give the dietetic and the medicinal treatment of diabetes mellitus.
- 4 What are the symptoms of gout?
- 5 Give the kidney symptoms of berberis.
- 6 In what diseases should lobelia be prescribed?
- 7 Give the symptoms and treatment of acute conjunctivitis.
- 8 How should spasmodic croup be treated?
- 9 Give the symptoms and treatment of infantile scorbutus.
- 10 When should aloes be given in hemorrhoids?
- 11 Give the symptoms and treatment of rachitis.
- 12 Describe the appearance of a sulfuric acid throat.
- 13 Give the characteristics of *five* remedies useful in sleeplessness.
- 14 Describe the appearance of the tongue in cases in which taraxacum is indicated.
- 15 Mention the nervous symptoms of chamomilla.

Therapeutics, Practice and Materia Medica

Friday, June 16, 1899—9.15 a. m. to 12.15 p. m., only

‘ . . . in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.’

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Homeopathic medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Differentiate gastric ulcer and gastric cancer.
- 2 Give the indications for muriatic acid in typhoid fever.
- 3 Give the diagnostic symptoms of cerebral syphilis.
- 4 Mention *four* remedies useful in amenorrhea, and give indications for each.
- 5 What are the most common sequelae of measles?
- 6 Mention *three* characteristics of magnesia carbonica.
- 7 Give the symptoms and medicinal treatment of appendicitis.
- 8 Differentiate the mental symptoms of calcaria carbonica and those of lilium tigrinum.
- 9 Give the treatment of rachitis.
- 10 Describe the appearance of the tongue in cases in which lachesis is indicated.
- 11 What is *uremia*?
- 12 State the causes of multiple neuritis.
- 13 Give the symptoms and treatment of arsenic poisoning.
- 14 Give the indications for *three* remedies curative in sick headache.
- 15 How should a case of infantile convulsions be treated?

College Department

Board

41st Medical Examination

Place

Therapeutics, Practice and Materia Medica

Friday, September 30, 1898—9.15 a. m. to 12.15 p. m., only

in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Eclectic medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What is meant by *specific* in therapeutics?
- 2 Give the symptoms and treatment of suppression of urine.
- 3 What remedies are fatal to the lumbricoides?
- 4 Describe the treatment of coma from alcohol poisoning.
- 5 What is *tetany* and how is it treated?
- 6 Describe the action and uses of apomorphia.
- 7 Give the treatment of varicose ulcer.
- 8 Describe leptandrin and give its therapeutic action.
- 9 Describe the treatment of acute mania.
- 10 Give the action and uses of pyrogallic acid.
- 11 Write *two* prescriptions for flatulent colic.
- 12 Mention *two* remedies useful in the treatment of delirium tremens, and give the maximum dose and the action of each.
- 13 Give the prognosis of chronic hydrocephalus.
- 14 What would be a safe dose of tincture of opium for a child aged five years?
- 15 Give an opinion in regard to the theory of the nervous origin of rheumatism.

Therapeutics, Practice and Materia Medica**Friday, January 27, 1899—9.15 a. m. to 12.15 p. m., only**

... in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the Eclectic medical society of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 How is muriatic acid prepared? What are the therapeutic uses of muriatic acid?
- 2 What condition of the patient in typhoid fever indicates the use of stimulants?
- 3 State the dose and describe the action of sulfate of magnesia.
- 4 Describe the toxic symptoms of morphia.
- 5 Give the treatment of malarial hepatitis.
- 6 State the action of the alcoholic preparations of wormwood on the nerve centers.
- 7 Give the symptoms and outline the treatment of arterio-sclerosis.
- 8 Mention the therapeutic uses of macrotys.
- 9 Describe the treatment of tonsillitis.
- 10 Describe the general use and the therapeutic effect of the galvanic current of electricity.
- 11 Mention *five* preparations of opium with the dose of each for an adult.
- 12 Describe the treatment of acute cystitis.
- 13 Define *ptomain*, *toxin*, *carminative*.
- 14 Give the treatment of tachycardia.
- 15 Give the therapeutic uses of *cactus grandiflorus*.

Therapeutics, Practice and Materia Medica

Friday, April 7, 1899—9.15 a. m. to 12.15 p. m., only

in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the Eclectic medical society of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Mention some of the causes of cerebral softening and give the treatment.
- 2 Mention the specific remedy for delirium with restlessness.
- 3 State the specific indications for the administration of belladonna.
- 4 Describe guaiac. What are the therapeutic uses of guaiac?
- 5 Give an opinion as to the value of specific medication.
- 6 Mention the diseases to which the kidneys are most liable.
- 7 Describe the treatment of typhoid fever by the bath, giving the indications for the use of the bath.
- 8 What is an aphrodisiac medicine? Mention the names of some medicines of this class.
- 9 Give the cause, the general symptoms and the treatment of myelitis.
- 10 Under what conditions should aconite be chosen in preference to veratrum virid?
- 11 Give the specific indications for the use of collinsonia in hemorrhoids.
- 12 What remedial measures are beneficial in epistaxis?
- 13 What is the cause of enlargement of the spleen in malarial disease? Give the treatment of malaria.
- 14 How and where is tar obtained? State the medicinal uses of tar.
- 15 Describe colica pictonum and give the treatment.

Therapeutics, Practice and Materia Medica**Friday, May 19, 1899—9.15 a. m. to 12.15 p. m., only**

' . . . in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Eclectic medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Give the treatment of *acarus scabiei*.
- 2 What is the source of balsam of copaiba? State the dose of balsam of copaiba for internal administration.
- 3 Mention the diseases in which *grindelia robusta* is specially valuable. State the specific indications for the use of *grindelia robusta*.
- 4 Give an opinion as to the value of medicines administered singly as compared with their value when prescribed in combination.
- 5 What are the specific remedies in facial neuralgia?
- 6 Give the therapeutic uses and the dose of *apis*.
- 7 Give the special indications for the use of *sabal serrulata* and *staphisagria* in vesical disease.
- 8 State the value of electricity in the treatment of locomotor ataxia and indicate the current that would be most applicable.
- 9 Give an example of demarcation between functional and structural disease.
- 10 Describe the toxic symptoms of *cocain*.
- 11 Give a treatment of *angina pectoris*.
- 12 On the principle of selection, mention the names of the drugs useful in stimulating the functions of the liver.
- 13 State the specific indications calling for *baptisia*.
- 14 Outline the treatment of cardiac rheumatism.
- 15 Give the special indications for the use of *gelsemin*.

Therapeutics, Practice and Materia Medica

Friday, June 16, 1899—9.15 a. m. to 12.15 p. m., only

in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its state board of medical examiners.'

Laws of 1893, ch. 661, § 146

Questions prepared by the Board of examiners representing the **Eclectic medical society** of the state of New York.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Give the treatment of albuminuria following scarlatina.
- 2 Describe herpes zoster. Give the treatment of herpes zoster.
- 3 What is *caulophyllin*? State the specific uses of caulophyllin.
- 4 Give the drug affinities of the optic centers.
- 5 What is the best medium for preserving the living or green vegetable remedies?
- 6 Give the specific therapeutics in a case of fever when the patient has a broad, flabby tongue and pallid mucous membrane, white coated.
- 7 Describe alcoholic neuritis. Give the treatment of alcoholic neuritis.
- 8 What is *purpura hemorrhagica*? Give the treatment of purpura hemorrhagica.
- 9 Describe capsicum and give its therapeutic uses.
- 10 What is *Magendie's solution*? How much of the active principle is contained in one drachm of the mixture?
- 11 Give the treatment of acute glossitis.
- 12 What is *verbascum thapsus*? State the medicinal uses of verbascum thapsus.
- 13 Give the treatment of cerebrospinal syphilis.
- 14 Describe xanthoxylum and give its medicinal uses.
- 15 Give the common name and the medicinal uses of magnesium sulfate.

ANATOMY

Tuesday, September 27, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What bones articulate with the superior maxillary bone?
- 2 What bones articulate with the vomer?
- 3 Describe the sphenoidal fissure.
- 4 Describe the glenoid fossa.
- 5 Mention the bones of the face.
- 6 Mention the muscles attached to the occipital bone.
- 7 Mention the muscles attached to the inferior maxillary bone.
- 8 What nerves and artery pass through the foramen ovale of the sphenoid bone?
- 9 Give the origin and insertion of the internal pterygoid muscle.
- 10 Give the branches of the facial artery.
- 11 Give the branches of the lingual artery.
- 12 Mention the principal veins of the head and neck.
- 13 Mention in order the cranial nerves.
- 14 Describe the sublingual and the submaxillary glands.
- 15 Mention the branches of the superior maxillary division of the fifth nerve.

ANATOMY

Tuesday, January 24, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Give articulations of the ethmoid bone.
- 2 Describe the facial surface of the superior maxillary bone.
- 3 Mention the muscles attached to the outer surface of the malar bone.
- 4 Describe the sigmoid notch.
- 5 Give the origin and insertion of the external pterygoid muscle.
- 6 Give the origin and insertion of the tensor tympani muscle.
- 7 Describe the temporal muscle. Give its origin and insertion.
- 8 Mention the branches of the maxillary portion of the internal maxillary artery.
- 9 Mention the branches of the posterior auricular artery.
- 10 Describe the facial vein.
- 11 Give the origin and distribution of the fourth nerve.
- 12 Describe the Gasserian ganglion.
- 13 Describe the palate-bone and give its articulations.
- 14 Describe the mylohyoid branch of the inferior dental nerve.
- 15 Describe the hypoglossal nerve.

ANATOMY

Tuesday, April 4, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What muscles are attached to the basilar process of the occipital bone?
- 2 Give the articulations of the frontal bone.
- 3 What nerves, arteries and veins pass through the sphenoidal fissure?
- 4 Describe the internal surface of the inferior maxillary bone.
- 5 Give the articulations of the vomer.
- 6 Give the boundaries of the anterior triangle of the neck.
- 7 Mention the muscles that depress the lower jaw.
- 8 What muscles are attached to the styloid process of the temporal bone?
- 9 Mention the muscles of the tongue.
- 10 Describe the lingual artery and give its branches.
- 11 Give the origin, insertion and function of the external pterygoid muscle.
- 12 Describe the antrum of Highmore.
- 13 Give the nerve supply of the digastric muscle.
- 14 Describe the inferior maxillary nerve. Mention its branches and give their distribution.
- 15 Describe the temporomaxillary articulation.

ANATOMY

Tuesday, May 16, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Mention the muscles of the soft palate.
- 2 Give the articulations of the temporal bone.
- 3 Mention and describe the salivary glands.
- 4 Give the origin and insertion of the sternothyroid muscle.
- 5 Describe the mylohyoid muscle, giving its origin and insertion.
- 6 Mention the cervical branches of the ophthalmic artery.
- 7 What muscles depress the lower jaw?
- 8 Mention the veins of the neck.
- 9 Describe the first pair of nerves.
- 10 Mention the branches of the ophthalmic division of the fifth nerve.
- 11 Describe the facial nerve.
- 12 Describe the temporal fossa.
- 13 What muscles are attached to the hyoid bone?
- 14 What muscles are attached to the body of the inferior maxillary bone?
- 15 Describe the facial surface of the superior maxillary bone.

College Department

22d Dental Examination

No.

Place

ANATOMY

Tuesday, June 13, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Describe the greater wings of the sphenoid bone.
- 2 Give the articulations of the superior maxillary bone. From how many centers is it developed?
- 3 Mention the muscles attached to the superior maxillary bone.
- 4 Describe the petrous portion of the temporal bone.
- 5 Give the articulations of the lachrymal bone. Give the name of the muscle attached to this bone.
- 6 Give the origin and insertion of the external pterygoid muscle.
- 7 Give the origin and insertion of (a) the omo-hyoid muscle, (b) the genio-hyo-glossus muscle, (c) the orbicularis palpebrarum muscle.
- 8 Describe the superior vena cava.
- 9 Describe the external jugular vein.
- 10 Describe the circle of Willis.
- 11 Mention the branches of the facial artery.
- 12 Describe the common carotid artery.
- 13 Mention the sphenomaxillary branches of the internal maxillary artery.
- 14 Mention the branches of the hypoglossal nerve.
- 15 Mention in order the cranial nerves.

PHYSIOLOGY AND HYGIENE

Tuesday, September 27, 1898—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *tissue*.
- 2 State the object of respiration.
- 3 Describe the movements of the heart.
- 4 State the *three* forms of digestion.
- 5 Give the mechanical uses of saliva.
- 6 What is *bile*? What are its functions and by what organ is it secreted?
- 7 What are nature's provisions for purifying the air?
- 8 Define *assimilation*.
- 9 State the use and importance of (*a*) perspiration, (*b*) bathing.
- 10 Mention *three* inorganic substances found in the body. State in what part of the body each is found.
- 11 Give the composition of blood.
- 12 Describe by diagram or otherwise a section of the spinal cord.
- 13 State the advantages of a mixed diet.
- 14 Give the principal use of fruit as an article of food.
- 15 What method of treatment should be followed to restore the mouth to a hygienic state if the following conditions are present in the oral cavity: inflamed gums, tartar, foul breath, diseased roots and decayed teeth?

PHYSIOLOGY AND HYGIENE**Tuesday, January 24, 1899—1.15 to 4.15 p. m., only**

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 How is the process of nutrition carried on?
- 2 Describe the stomach and give its location.
- 3 Define *absorption, assimilation*.
- 4 State the importance of blood to the body.
- 5 Describe the circulation of the blood through the heart.
- 6 Give the average number of heart beats per minute. State the influence of posture on the action of the heart.
- 7 Give the composition of the atmosphere. State the average proportion of carbon dioxid in the atmosphere.
- 8 State the function of the dental periosteum.
- 9 State the function of the nervous system.
- 10 Mention the organs of (*a*) secretion, (*b*) excretion.
- 11 State the function of the medulla oblongata.
- 12 State the function of connective tissue.
- 13 What hygienic precautions should be taken with instruments used in dentistry?
- 14 How is bone nourished? How is dentin nourished?
- 15 State the function of epithelium.

PHYSIOLOGY AND HYGIENE

Tuesday, April 4, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 By what means may coagulation of the blood be hastened?
- 2 How does the nervous system influence gastric digestion?
- 3 What is the function of the sympathetic nervous system?
- 4 What effect on blood has respiration? What changes take place in the air respired during respiration?
- 5 State the function of (a) an afferent nerve, (b) an efferent nerve.
- 6 Give directions for hygienic care of the mouth.
- 7 Of what is blood composed?
- 8 Define *contagion*, *infection*. Give an example of each.
- 9 By what processes is blood provided with new material and relieved of waste products?
- 10 Give the names and location of the salivary glands.
- 11 Mention the *four* principal elements of the body.
- 12 Give (a) the normal temperature, (b) the normal pulse.
- 13 Define *secretion*, *excretion*.
- 14 Describe (a) the arterial system, (b) the capillary system.
- 15 Define *organic matter*, *inorganic matter*.

PHYSIOLOGY AND HYGIENE**Tuesday, May 16, 1899—1.15 to 4.15 p. m., only**

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 State the physiologic action in the movement of a tooth to correct an irregularity.
- 2 Mention the principal muscles used in mastication.
- 3 What causes the pulse? Explain.
- 4 What is the *epiglottis*?
- 5 What is *saliva*? State the action of saliva.
- 6 State the distinction between mucous membrane and serous membrane.
- 7 Give the percentage of (a) animal matter in enamel, (b) mineral matter in enamel.
- 8 Give the physical properties, the reaction and composition of bile.
- 9 State the function of the trifacial nerve.
- 10 Mention some of the qualities that are desirable in drinking water.
- 11 Of what does the circulatory apparatus consist?
- 12 State the source of animal heat.
- 13 What are the proximate principles of the body?
- 14 Mention the methods that may be used in the household for the purification of water.
- 15 State the difference between the vasoconstrictor and the vasodilator nerves.

PHYSIOLOGY AND HYGIENE

Tuesday, June 13, 1899—1.15 to 4.15 p. m., only.

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 State the function of the nervous system.
- 2 Describe a nerve.
- 3 Describe the lymphatic system. State the function of the lymphatics.
- 4 Mention the excretory organs.
- 5 Mention *five* of the principal elements of the body.
- 6 State the function of the dental periosteum.
- 7 Of what use is water in the organism?
- 8 What ferment does saliva contain? State the action of this ferment.
- 9 In what way is taste produced?
- 10 What is meant by the term *nerves of special sense*?
- 11 Define *systole, diastole*.
- 12 How is the temperature of the body sustained and regulated?
- 13 Describe the liver and give its location.
- 14 What does the hygiene of schools comprise?
- 15 What *two* systems or sets of nerves are found in the body?

CHEMISTRY AND METALLURGY

Wednesday, September 28, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 What is a compound of oxygen with another element called? Mention *three* such compounds.

2 Under what conditions may galvanic currents be established in the mouth?

3 Give approximately the number of known elements, with the symbol and atomic weight of each of *five* elements.

4 What is meant by *chemical reaction*? Give an example.

5 Give a test and an antidote for arsenic.

6 Mention the solvent for gold. Give the formula.

7 Define *electrolysis*. Give an illustration of its use.

8 When gold and amalgam are used in approximate cavities, which metal has the greater effect on the surrounding dentin?

9 How is oxygen prepared?

10 Mention an antidote for (a) corrosive sublimate, (b) sugar of lead.

11 Explain the uses of symbols and formulas. Give and translate (a) *five* symbols, (b) *five* formulas.

12 Mention the process of fusing the metals for dental alloy to avoid volatilization.

13 Distinguish between a mixture and a chemical compound.

14 How does N_2O rank as a supporter of combustion and respiration?

15 Give some of the characteristics of aluminum, and state how it is obtained from the ore.

CHEMISTRY AND METALLURGY

Wednesday, January 25, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Distinguish between an element and a compound. Give an example of each.
- 2 Define *effervescence*, *efflorescence*, *deliquescence*, *hydrate*, *anhydrid*.
- 3 Define *alkaloid*. Mention *three* alkaloids used in medicine.
- 4 Mention and describe the varieties of HNO_3 met with in commerce and pharmacy.
- 5 Mention *six* non-metallic and *six* metallic elements. Give the symbol of each.
- 6 What is *aqua regia*? Give the formula and uses of *aqua regia*.
- 7 Give the formula and properties of (a) hydrochloric acid, (b) sulfuric acid, (c) sulfurous acid, (d) phosphoric acid.
- 8 What is the difference between two acids composed of the same elements, the name of the one ending in *ous*, and that of the other in *ic*? Illustrate, giving names and formulas.
- 9 Define *negative element*, *positive element*. Mention the conditions under which negative and positive elements act on each other. Illustrate this action.
- 10 Give an account of some process, describing apparatus, for producing electric currents by chemical action. State the chemical action involved in this process.
- 11 Mention the process of fusing metals for dental alloy to avoid volatilization.
- 12 Mention the *four* principal elements found in the human body.
- 13 Describe the chemical process by which minerals are converted into animal food.
- 14 Give *three* classifications of matter.
- 15 Mention *five* important constituents of atmospheric air.

CHEMISTRY AND METALLURGY

Wednesday, April 5, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 State approximately the number of known elements. Give the symbol and the atomic weight of each of *five* of these elements.

2 Mention a solvent for gold and platinum, giving formula.

3 Distinguish between organic chemistry and inorganic chemistry.

4 By what force do atoms unite to form compounds? Give an example.

5 What is meant by *electric potential*? Give an example.

6 Give the process of refining gold scraps and filings. Give method of separating gold from platinum.

7 Mention in order the best three conductors of heat and electricity.

8 Describe Marsh's test for arsenic.

9 Give a method of determining the specific gravity of (a) solids, (b) gases.

10 Describe the process of preparing laughing gas, writing the reaction.

11 What is the source of tartaric acid? State the use of tartaric acid in medicine.

12 Give *two* methods of obtaining oxygen.

13 Explain chemically the setting of amalgam. State the effect produced by washing amalgam.

14 In making dental alloy state the order of fusing the metals so that volatilization of the base metals may be prevented.

15 What is meant by *chemical reaction*? Illustrate.

CHEMISTRY AND METALLURGY

Wednesday, May 17, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define an *element*. Give approximately the number of known elements.
- 2 Give the chemical constituents of (a) dentin, (b) enamel. State the properties of each element mentioned.
- 3 For what element is there the most extensive affinity?
- 4 Mention *three* compound substances, giving the formula of each.
- 5 In what condition are elements generally found in nature? Mention *two* exceptions.
- 6 Mention and describe some of the varieties of HNO_3 met with in commerce and pharmacy.
- 7 Give an illustration of what is meant by water of crystallization.
- 8 Classify matter.
- 9 How is the specific gravity of solid materials obtained?
- 10 How is the specific gravity of gases obtained?
- 11 Mention conditions under which gold when worn in the mouth with other metals produces electric currents.
- 12 Explain the use of symbols and formulae. Give and translate *three* examples of each.
- 13 Describe the manufacture of chloroform.
- 14 What is meant by *analysis*, *synthesis*? Give an illustration of each.
- 15 Describe the Bunsen burner, and give the chemistry of its flame.

CHEMISTRY AND METALLURGY

Wednesday, June 14, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 State the theory of valence.
- 2 Distinguish between atoms and molecules.
- 3 Describe some method of determining the elements in a compound.
- 4 Mention *two* ways in which elements occur in nature, and give *three* examples of each.
- 5 What are the chemical constituents of (a) enamel, (b) dentin? State the proportions of the constituents of each substance.
- 6 What is (a) *atomic weight*, (b) *molecular weight*? Explain how these weights are obtained.
- 7 What is *ozone*? In what proportion does it exist in air, and how may this proportion be determined?
- 8 What is *water of crystallization*? Give an example.
- 9 Define *anhydrous*, *deliquescent*, *efflorescent*, *alkalin*, *neutral*.
- 10 How does N_2O rank as a supporter of combustion and respiration?
- 11 Differentiate element, mixture and compound. Give an example of each.
- 12 Explain the difference between the endings *ous* and *ic*. Illustrate.
- 13 Describe the preparation of plaster of Paris. Explain the setting of plaster of Paris.
- 14 Give the formula and method of preparation of chloroform.
- 15 Give the method of preparation and the use in dentistry of H_2SO_4 .

ORAL SURGERY AND PATHOLOGY

Wednesday, September 28, 1898—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *pathology*.
- 2 Give the local and the constitutional treatment of inflammation.
- 3 Differentiate tetanus and trismus.
- 4 Give the etiology, pathology and treatment of phagedenic pericementitis.
- 5 Give the etiology, pathology, symptoms and treatment of hyperemia of the pulp.
- 6 Give the etiology, symptoms and treatment of aphthous stomatitis.
- 7 What precautionary measures should be observed in the ligation of arteries?
- 8 Differentiate thrombosis and embolism.
- 9 Give the treatment of septic wounds.
- 10 Define *leucomaines*. State where they are found.
- 11 Give the etiology, symptoms and treatment of acute periostitis of the inferior maxilla.
- 12 Describe the operation for excision of the inferior dental nerve.
- 13 Give the etiology and treatment of epistaxis.
- 14 Mention the different kinds of tumors of the gums.
- 15 Give the treatment of fracture of the superior maxillary bone.

ORAL SURGERY AND PATHOLOGY

Wednesday, January 25, 1899—I. 15 to 4. 15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 Describe the necessary preparation of patients for general anesthesia by ether or chloroform. State what remedies and instruments should be at hand.

2 Where is fibroma most frequently found? Give the pathology, the surgical treatment and the prognosis of fibroma.

3 What conditions are necessary to obtain bony consolidation after fracture?

4 Give the etiology, diagnosis and treatment of acute, non-purulent, apical pericementitis.

5 Give the treatment of gunshot fracture of the inferior maxilla.

6 Give the treatment of contaminated wounds.

7 Give the treatment of wounds of the tongue.

8 How does suppuration spread?

9 Define *plastic surgery*. Describe the methods that may be employed in plastic surgery.

10 Define *scarification*. Give the method of this operation and state the results obtained. Mention the necessary precautions to be observed in scarification.

11 Give the local treatment of hemorrhage.

12 Define *diathesis*.

13 Define *cachexia*.

14 State the usual method of cultivating bacteria.

15 Into what classes are bacteria divided?

ORAL SURGERY AND PATHOLOGY

Wednesday, April 5, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *plethora*, *anemia*, *hyperemia*.
- 2 What are the active agents in decomposition?
- 3 Describe the action of pathogenic bacteria on tissues.
- 4 Give the local and constitutional causes of non-union of fractures.
- 5 Give the symptoms and treatment of traumatic dislocation of the inferior maxilla.
- 6 Give the etiology, symptoms and treatment of abscesses of the hard palate.
- 7 Describe Miller's theory of dental caries.
- 8 Mention *three* tumors of the antrum. Give treatment.
- 9 Give the etiology, symptoms and treatment of incipient alveolar abscess.
- 10 Give the pathology and treatment of hypertrophy of the gums.
- 11 Give the etiology and treatment of fibrous odontome.
- 12 Give the etiology and symptoms of congenital malformation of cleft palate.
- 13 Mention the varieties of inflammation of the mucous membrane. Give the clinical appearance of *one* variety.
- 14 Give the local and constitutional causes of secondary or recurrent hemorrhage.
- 15 Give treatment of injuries of the mouth caused by carbolic acid.

ORAL SURGERY AND PATHOLOGY

Wednesday, May 17, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *oral pathology*.
- 2 Describe (a) Silvester's method of producing artificial respiration, (b) Laborde's method of producing artificial respiration.
- 3 Give the etiology, diagnosis and treatment of syphilitic ulceration of the tongue.
- 4 Describe the changes produced by luxation of the temporo-maxillary articulation.
- 5 Give the etiology, diagnosis and treatment of periostitis of the superior maxilla.
- 6 Give the diagnosis and treatment of papillomata of the gums.
- 7 Give the etiology, diagnosis and treatment of trigeminal neuralgia.
- 8 Give the symptoms and treatment of punctured wounds of the inferior maxillary nerve.
- 9 Give the classification, the clinical appearance and the treatment of odontomata.
- 10 Mention the subjective and the objective symptoms of a blind alveolar abscess. Give treatment.
- 11 Define *shock*. Give the cause, symptoms, reaction and treatment of shock.
- 12 Differentiate surgical fever, septicemia and pyemia. Give the treatment of each.
- 13 Give the etiology and indications for treatment of hare-lip. Describe the operation in detail, stating the favorable age for its performance.
- 14 Describe the preparation of the oral cavity for an aseptic operation.
- 15 Give the symptoms and treatment of necrosis resulting from the extraction of teeth.

ORAL SURGERY AND PATHOLOGY

Wednesday, June 14, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Give the diagnosis and treatment of mercurial stomatitis.
- 2 Describe the technic of ligation of arteries.
- 3 Describe a method of neurotomy of the third division of the fifth nerve.
- 4 Give the symptomatology and treatment of alveolar abscess.
- 5 Give the etiology and treatment of erosion.
- 6 Give the differential diagnosis of ozaena and empyema of the antrum.
- 7 Give the diagnosis and clinical appearance of myeloid sarcoma.
- 8 Give the differential diagnosis of arthritis and synovitis.
- 9 Give the etiology, diagnosis and treatment of hyperemia of the pulp.
- 10 Describe the pathologic changes in acute inflammation.
- 11 Give the diagnosis and treatment of facial erysipelas.
- 12 Give treatment of fracture of the superior maxilla. State the complications that may arise.
- 13 Give the etiology, symptoms and treatment of tetanus.
- 14 Give treatment of hypersensitive dentin.
- 15 Give the differential diagnosis of caries and necrosis.

OPERATIVE DENTISTRY

Thursday, September 29, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Give the treatment of decay on the lingual surfaces of molars below the gingival margin.
- 2 Give method of using zinc phosphate and amalgam in combination.
- 3 Give method of restoring frail teeth with zinc phosphate and gold in combination.
- 4 Describe method of using amalgam in combination with gold.
- 5 Differentiate pericementitis and exostosis. State symptoms and treatment of each.
- 6 Give method of inserting inlays. State their advantages.
- 7 Under what conditions is immediate root filling advisable?
- 8 Give method of preparing and filling pulp canals.
- 9 How should exposed pulps in deciduous teeth be treated?
- 10 How should decay in children's teeth be treated?
- 11 Give the different stages in the preparation of an approximal cavity for a gold filling. State the general principles governing this preparation.
- 12 Under what conditions should a pulp be capped? Give methods employed in capping.
- 13 Give the best method of filling a cavity with tin.
- 14 How should edges of incisors wasted by abrasion be restored?
- 15 What benefits result from the application of electricity in operative dentistry?

OPERATIVE DENTISTRY

Thursday, January 26, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 Give the methods for the successful and safe removal of various deposits found on teeth, with preventive treatment.

2 Give, with reasons, the best composition of amalgam for filling and preserving poorly calcified teeth.

3 Give the method of treatment of faulty enamel development of an anterior tooth whose incisal portion is shrunk and pitted on the labial surface.

4 Give the method of removing pulps and filling canals in crooked buccal roots of superior molars.

5 Give the method of treating and filling pulp canals in a root imperfectly developed at the apex, with a large apical opening.

6 Give the treatment in a case of necrosis of apex of an incisor root, resulting from alveolar abscess.

7 Give the preferable method of (a) arresting waste, (b) filling cavities caused by erosion.

8 How should cervical walls of cavities be prepared as to (a) form of walls, (b) gum margins, (c) anchorage?

9 Describe a method of preparing large 'spoon-shaped' approximal cavities for gold fillings with reference to (a) retention of gold fillings, (b) preservation of dentin support to enamel walls.

10 Give method of removing pulp and of filling canals of an inferior molar having a normal crown, with exposure at the gingival line and beneath the gum margin of the distal approximal surface.

11 Give the preparation for mesio-incisal filling of a cavity having a thin edge, one third of which is broken away and the remainder normal.

12 Give the best method of treating and filling a buccal cavity reaching beneath the alveolar border, when the gums are inflamed and bleed on slight irritation, a rubber dam being impracticable.

13 What are the physical changes in an amalgam filling after its insertion in a tooth?

14 What are the advantages of a combination of gold and tin as a filling? Give method of making such filling.

15 Give method of preparing an approximal cavity and inserting a non-cohesive gold filling.

OPERATIVE DENTISTRY

Thursday, April 6, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What pathologic condition may result from wedging teeth?
- 2 Why should special care be exercised in wedging the superior central incisors?
- 3 Differentiate implantation and replantation and give the method of operation in each case.
- 4 Give (a) the best material for filling deciduous teeth, (b) the most successful method of filling deciduous teeth.
- 5 What benefits result from the use of silver nitrates in dental operations?
- 6 Differentiate silver nitrate and chlorid of zinc in treatment of sensitive tooth structure, stating respective advantages.
- 7 How should slight defects in sulci of molars and bi-cuspidis in children's permanent teeth be treated before decay intervenes?
- 8 Under what conditions is it advisable to extract children's six-year molars? Justify your answer.
- 9 Under what conditions is a tin filling preferable to a gold filling? Give reasons.
- 10 In what class of cavities are chlorid of zinc fillings or phosphate of zinc fillings specially hazardous?
- 11 Give the recognized stages of dental caries with method of treatment of each.
- 12 What are the principles governing the preparation of a cavity for filling?
- 13 Give treatment of pulpitis resulting from irritation caused by thermal changes in metallic fillings.
- 14 Give method of preparing a very sensitive cavity for gold filling without cataphoresis.
- 15 Give the most secure anchorage for mesio-incisal filling, when the corner of the tooth is broken off, and the remainder of the incisal portion is normal, thin and frail.

OPERATIVE DENTISTRY

Thursday, May 18, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Under what conditions is it advisable to cap a pulp?
- 2 How should a freshly exposed pulp be treated and protected? State medicaments used, giving details of operation.
- 3 Give the prognosis and treatment in case of soreness at apex of the root after removal of a pulp.
- 4 Describe a safe and efficient form of excavator point for removing deep-seated caries. Give reasons for using it.
- 5 Give detailed method of filling a pulp canal. Mention medicaments and filling material used.
- 6 Describe a method of preparing and filling a labial cavity extending beneath the alveolar border.
- 7 Describe methods of bleaching teeth, mentioning the agents used and the manner of using.
- 8 Describe treatment of shallow sulci in crowns of molars. Mention the filling materials and remedies employed, giving reasons for their use.
- 9 Describe (a) a method of protecting pulp canals while pulps are being removed, (b) a method of filling canals when rubber dam can not be employed.
- 10 Differentiate exostosis and pulp stone, giving detailed treatment of each.
- 11 State a safe method, other than cataphoresis, of removing a pulp from a labial cavity extending beneath the alveolar border of an incisor.
- 12 Describe in regard to excavator burrs (a) a method of cleaning, (b) a method of sharpening, (c) a method of rendering aseptic.
- 13 Describe the proper preparation of a cavity for (a) a gold filling, (b) an amalgam filling.
- 14 Describe in detail manipulation in introducing and finishing a cohesive gold filling in an approximal cavity.
- 15 Give method of filling a cavity with a combination of non-cohesive and cohesive gold.

OPERATIVE DENTISTRY

Thursday, June 15, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Describe the technic of the insertion of a porcelain inlay on the labial and approximal surface of an incisor.
- 2 Describe the method and advantages of using a matrix in operations, stating the location and form of cavity most desirable for its use.
- 3 Describe the pathologic conditions liable to result from green stain on the labial surface at the gingival border of children's teeth. Give treatment.
- 4 In what class of teeth and cavities is amalgam most desirable as a filling?
- 5 Give the technic of filling a cavity with non-cohesive gold.
- 6 Differentiate non-cohesive gold fillings and cohesive gold fillings.
- 7 State the pathologic conditions liable to follow removal of pulps and filling of canals. Give prognosis and treatment.
- 8 Give the etiology, prognosis and treatment of caries in the teeth of children under 12 years of age.
- 9 In what class of teeth should gutta-percha rather than metallic fillings be used?
- 10 Mention safe antiseptics for rendering a cavity or a pulp canal aseptic.
- 11 State an approved method of using a combination of gold and tin as a filling, and give reasons for use.
- 12 Give the technic of the restoration of a crown on an incisor root.
- 13 Give a safe and effective method of devitalizing and removing a pulp. Mention medicaments used, and give treatment for reducing inflammatory condition during the operation.
- 14 Describe the preparation of a cavity for a gold filling.
- 15 Mention conditions that justify the extraction of the first permanent molars. Give reasons.

PROSTHETIC DENTISTRY

Thursday, September 29, 1898—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What anatomic changes are produced by the loss of the teeth?
- 2 How may a black rubber plate be faced with pink rubber at one vulcanizing?
- 3 How should an impression of the mouth for artificial teeth be made?
- 4 Give the successive steps in soldering a bridge from the time it is invested till the investment is removed.
- 5 What causes tissue to become inflamed under a rubber or a celluloid plate?
- 6 Give the formula for a 20-carat gold solder.
- 7 What are the principal solvents of rubber?
- 8 Does absorption of the alveolar process progress more rapidly with or without a plate?
- 9 Give the composition of porcelain teeth.
- 10 Give the formula for a 20-carat gold plate.
- 11 Give the proper fineness and gage of gold for ordinary crown work.
- 12 Give the name of (a) articulator preferred, (b) flask preferred, (c) vulcanizer preferred. State reasons for preference in each case.
- 13 Explain what is meant by biscuiting.
- 14 How should faults in the articulation of artificial teeth be corrected?
- 15 In what case should one use (a) black rubber, (b) red rubber, (c) pink rubber?

PROSTHETIC DENTISTRY

Thursday, January 26, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What is *prosthetic dentistry*?
- 2 Describe *three* methods of crowning roots.
- 3 Describe the construction of a denture composed entirely of porcelain.
- 4 Classify the following metals in order of fusibility, mentioning the most refractory one first: silver, aluminum, gold, tin, platinum, zinc, copper.
- 5 Why is the lower denture more troublesome than the upper denture?
- 6 What is *weighted rubber* and where is it used?
- 7 How should a healthy canine root be crowned?
- 8 How is gold solder confined to the parts to be soldered?
- 9 What conditions justify refusal to crown roots?
- 10 Give the most practical method of supplying the loss of an inferior central incisor.
- 11 What pathologic conditions are likely to result from misfitting plates?
- 12 How does 22-carat solder differ from 22-carat plate?
- 13 Mention *three* valuable impression materials, giving the advantages of each.
- 14 What is meant by *plumpers*? Give their position.
- 15 What advantage has a metal plate over a vulcanite or a celluloid plate?

PROSTHETIC DENTISTRY

Thursday, April 6, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 Describe the method of taking an impression of a cleft palate.

2 Describe *three* methods of crowning a canine root.

3 How may a broken gold clasp on a rubber plate be repaired?

4 When should pure gold be used in crown and bridge work?

5 What is the amount of alloy in American coins?

6 What causes absorption of the alveolar process?

7 What is *plaster of Paris*?

8 What is *platinoid* and where is it used?

9 Give the formula for a 22-carat gold plate.

10 Describe the process of making a silver plate with a rubber attachment.

11 Where and how is crude rubber obtained?

12 When does absorption of the alveolar process increase more rapidly, with a plate or without a plate? Explain.

13 Give a formula for silver solder.

14 What is *Babbitt metal*?

15 What is *vulcanization*?

PROSTHETIC DENTISTRY

Thursday, May 18, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 How are fractured porcelain facings restored?
- 2 How is the clicking of artificial teeth prevented?
- 3 Describe the construction of a metal model for vulcanite plates.
- 4 Which teeth are generally used for clasping? Explain.
- 5 Give formula for an 18-carat gold plate.
- 6 When is absorption of the alveolar process more uniform and regular, with a temporary plate or without a temporary plate? State reasons.
- 7 How does the absence of teeth for a long time affect a person?
- 8 Give the fusing point of (a) gold, (b) silver, (c) aluminum.
- 9 Give formula for a 20-carat gold clasp.
- 10 At what degree of heat and how long should rubber be vulcanized in order that the best results may be obtained?
- 11 Give method of enameling gold crowns.
- 12 In adding new teeth to an old plate how may a correct impression and articulation be obtained?
- 13 Give method of swaging gold plate with shot.
- 14 What is the amount of alloy in American gold and silver coins?
- 15 How are teeth attached to the platinum plate in continuous gum work?

PROSTHETIC DENTISTRY

Thursday, June 15, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 Arrange the following metals with reference to their specific gravity, mentioning the heaviest first: copper, aluminum, platinum, tin, gold, zinc, silver.

2 How can it be determined whether or not rubber has been properly vulcanized?

3 How should a denture be constructed in case the gum is so full that no substance can be laid over it?

4 State method of polishing a rubber plate on the palatine surface.

5 In soldering a small piece of gold to a larger piece, on which piece should the solder be placed? Why?

6 State method of bleaching vulcanite.

7 In reducing three pennyweights of 22-carat gold to 18-carat gold, how much alloy should be used?

8 State the fineness of the present United States gold coin.

9 Describe a blast-furnace.

10 How can plaster be prevented from adhering to a vulcanized plate?

11 Describe the method of taking the bite for a full upper denture.

12 How should the loss of all the upper teeth on one side be supplied, when the others are sound and in position?

13 Mention *four* impression materials and state advantages of each.

14 State method of taking impression of a root for a gold crown.

15 What is *celluloid*?

THERAPEUTICS AND MATERIA MEDICA

Friday, September 30, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Mention a coagulating and a non-coagulating antiseptic.
- 2 Mention (a) *one* drug whose local action contracts the blood-vessels of a part, (b) *two* drugs whose local action dilates the blood-vessels of a part.
- 3 Describe the hypodermic method of administering medicines, and state precautions to be observed.
- 4 What is the physiologic action of nitroglycerin? State the dose of nitroglycerin.
- 5 Mention the restoratives that should be used in collapse from (a) ether, (b) chloroform.
- 6 What are the antidotes for (a) aconite, (b) opium?
- 7 State the local action of tincture of iodine.
- 8 Mention *four* properties that a dentifrice should possess.
- 9 Mention the following drugs in order of efficiency as disinfectants: oil of cloves, bichlorid of mercury, carbolic acid.
- 10 State the dose of (a) potassium bromid, (b) chloral, (c) acetanilid.
- 11 Give the source of (a) morphia, (b) strychnia, (c) atropia. State the dose of each.
- 12 Differentiate a decoction, a tincture and an infusion.
- 13 Give the dental uses of alkalis and acids.
- 14 Give the dental uses of carbolic acid.
- 15 What medicines, local and constitutional, are useful in the treatment of pericementitis?

THERAPEUTICS AND MATERIA MEDICA

Friday, January 27, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Mention (a) *three* remedies for toothache caused by exposure of the pulp, (b) *two* remedies for pericementitis.
- 2 Mention a remedy that antagonizes the constitutional action of aconite; a remedy that increases the constitutional action of aconite.
- 3 Mention (a) the doses of *two* of the preparations of opium, (b) the dose of *one* of the alkaloids of opium.
- 4 Mention the dose of (a) potassium bromid, (b) chloral, (c) acetanilid.
- 5 Mention *two* heart stimulants that act rapidly and give the dose of each.
- 6 State the action of digitalis on (a) the heart, (b) the blood-vessels, (c) the kidneys.
- 7 What drug is often combined with morphin when given hypodermically? Explain.
- 8 Which of the general anesthetics is most depressing to (a) the articulation, (b) the respiration?
- 9 Give the dental uses of sulfuric acid.
- 10 Mention the qualities that should be possessed by a disinfectant that is to be used in a putrescent pulp canal. Give the names of *two* disinfectants that possess these qualities.
- 11 Mention the dental uses of carbolic acid.
- 12 Mention *three* essential oils and give their dental uses.
- 13 Distinguish between antiseptic and disinfectant.
- 14 What is an *astringent*? Mention *three* vegetable and *two* mineral astringents.
- 15 What is an *escharotic*?

THERAPEUTICS AND MATERIA MEDICA**Friday, April 7, 1899—9.15 a. m. to 12.15 p. m., only**

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *materia medica*, *therapeutics*.
- 2 In what forms may medicines be given?
- 3 In what ways may medicines enter the system?
- 4 Describe the method of administering a medicine by which its quickest action is obtained.
- 5 Define *cathartic*, *diuretic*, *diaphoretic*, *expectorant*.
- 6 Differentiate a tonic and a stimulant.
- 7 Mention *three* good counter-irritants.
- 8 Mention *three* remedies useful in the treatment of pyorrhea alveolaris and state the purpose of each.
- 9 Define *chemical antidote for a poison*, *physiologic antidote for a poison*.
- 10 Mention *four* ingredients of a tooth powder and state the purpose of each ingredient.
- 11 Mention *four* disinfectants used in pulp canals.
- 12 Mention *three* medicines useful in the treatment of neuralgia due to the teeth. State the dose of each.
- 13 Mention the source of carbolic acid. State *three* properties of carbolic acid.
- 14 Mention *three* medicines that are useful in the treatment of chronic alveolar abscess with a fistulous opening. For what property is each valuable?
- 15 What internal treatment is indicated in pericementitis?

THERAPEUTICS AND MATERIA MEDICA

Friday, May 19, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What are *diuretics*, *expectorants*?
- 2 What are *escharotics*? Mention *two* escharotics.
- 3 With what medicine is arsenic combined to destroy the pulp of a tooth?
- 4 Give the indications for the use in producing sleep of (a) morphin, (b) chloral, (c) potassium bromid.
- 5 Mention *two* medicines that increase blood pressure.
- 6 Distinguish between a stimulant and an irritant.
- 7 State the local action of cocain on the blood-vessels.
- 8 With what class of remedies are the coal tar products prescribed for action on the heart?
- 9 What is a *sedative*? Mention *two* sedatives.
- 10 What are the dental uses of the alkalies? Mention *two* alkalies.
- 11 Mention *three* essential oils and state their dental uses.
- 12 What is the local action of chloroform when confined to a part so that evaporation is prevented?
- 13 Which of the vital organs fails first in collapse from (a) ether, (b) chloroform?
- 14 What is the treatment of cocain poisoning?
- 15 What is meant by chemical and physiologic incompatibility of medicines?

THERAPEUTICS AND MATERIA MEDICA**Friday, June 16, 1899—9.15 a. m. to 12.15 p. m., only**

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Mention *two* medicines that decrease blood pressure.
- 2 What is an *emetic*?
- 3 Mention a stimulant of the lymphatics.
- 4 Mention *two* medicines whose local action is to dilate the capillaries.
- 5 State the dose of (a) morphin, (b) strychnin, (c) atropin.
- 6 Mention *two* medicines that reduce fever.
- 7 State the dental uses of carbolic acid.
- 8 Mention an antidote for morphin.
- 9 State the dental uses of peroxid of hydrogen.
- 10 Mention a synergist of aconite.
- 11 Distinguish between an antiseptic and a disinfectant.
- 12 Mention the constituents of a good antiseptic mouth wash.
- 13 Mention the following in order of efficiency as disinfectants: carbolic acid, bichlorid of mercury, oil of cloves.
- 14 State the dose of (a) chloral, (b) acetanilid.
- 15 What is meant by idiosyncrasy in relation to the action of drugs?

HISTOLOGY

Friday, September 30, 1898—1.15 to 4.15 p. m., only

No. 87

Place

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *histology*.
- 2 Describe the process of absorption.
- 3 Give the chemical composition of cementum.
- 4 What are *Haversian canals*?
- 5 How is dentin formed?
- 6 What are *lacunae*? How are they formed?
- 7 How many times are the alveolar processes built up?
- 8 What are *dentinal tubuli*?
- 9 What is *cartilage*?
- 10 At what age does calcification begin?
- 11 Mention the different kinds of bone tissue.
- 12 What is *epithelium*?
- 13 What is the *peridental membrane*?
- 14 Give the chemical composition of dentin.
- 15 What is *secondary dentin*?

HISTOLOGY

Friday, January 27, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What is *histology*?
- 2 Mention the principal tissues of the body.
- 3 Give the varieties of connective tissue.
- 4 Mention the calcified tissues composing the teeth.
- 5 What is a *cell*?
- 6 How is bone developed?
- 7 Describe the periosteum.
- 8 What is *tissue*?
- 9 Describe the primitive dental groove.
- 10 From what do cells derive their nourishment?
- 11 What is an *epithelial cell*?
- 12 From what is connective tissue developed?
- 13 What are *interglobular spaces*?
- 14 Where does calcification of a tooth begin?
- 15 What is *calcification*?

HISTOLOGY

Friday, April 7, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Of what nature are the elements of which tissue is composed?
- 2 What is *spongioplasm*?
- 3 What is the *nucleus of a cell*?
- 4 What is *nuclear matrix*?
- 5 What is *blastoderm*?
- 6 Mention the tissues derived from the epiblast.
- 7 Mention the tissues derived from the mesoblast.
- 8 Mention the tissues derived from the hypoblast.
- 9 Of what tissues is the hair composed?
- 10 Of what calcified tissues is a tooth composed?
- 11 Is dentin vascular? Explain.
- 12 What is *secondary dentin*?
- 13 What is *myxomatous tissue*?
- 14 Give the varieties of connective tissue.
- 15 To what tissue does dentin belong?

College Department

21st Dental Examination

HISTOLOGY

Friday, May 19, 1899—1.15 to 4.15 p. m., only

No.

Place

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 What is *muscular tissue*?
- 2 What is the *periosteum*?
- 3 What are *ameloblasts*?
- 4 Is dentin formed inwardly or outwardly?
- 5 What is an *osteoclast*?
- 6 What is a *cell*?
- 7 From what is connective tissue derived?
- 8 In what manner does dentin increase?
- 9 From what do cells derive their nourishment?
- 10 What is *protoplasm*?
- 11 What is a *tooth germ*?
- 12 Describe the pulp and give its functions.
- 13 What are *odontoblasts*?
- 14 Give the chemical composition of dentin.
- 15 What is *organic tissue*?

HISTOLOGY

Friday, June 16, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 To what class of tissues do the teeth belong?
- 2 From what is the six-year molar derived?
- 3 Give the principal tissues in the animal body.
- 4 What is *exostosis*?
- 5 State the function of epithelial tissue.
- 6 What are the soft fibers of Tomes?
- 7 Describe the pulp of the tooth.
- 8 State the different kinds of bone tissue.
- 9 State the size, shape and structure of a human red blood-corpuscle.
- 10 Describe the structure of arteries.
- 11 What is *Schwann's sheath*?
- 12 To what tissue does dentin belong?
- 13 What is *bioplasm*?
- 14 Mention the varieties of epithelium.
- 15 Describe Nasmyth's membrane.

ANATOMY

Tuesday, September 27, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Describe the anterior maxillary bone of the horse and of the ox.
- 2 Describe the receptaculum chyli and the thoracic duct.
- 3 What structures pass through the anterior and posterior divisions respectively of the foramen lacerum basis cranii?
- 4 Describe the metacarpal and metatarsal arteries and their divisions.
- 5 Describe the liver in its relations to the diaphragm in the horse and in the ox.
- 6 Describe the testicle, the epididymis and the spermatic cord.
- 7 Describe the kidneys of the ox.
- 8 Describe the interdigital canal of the sheep.
- 9 Describe the testicles of the bird and give their relations.
- 10 Describe the cartilages of the larynx.
- 11 Describe the hip-joint and state the differences between the hip-joint of the horse and that of the ox.
- 12 Describe the incisors of the horse and of the ox.
- 13 Give the vascular and nervous relations of the guttural pouch.
- 14 At what place should the trephine be inserted to open (a) the upper part of the frontal sinus, (b) the lower extremity of the maxillary sinus?
- 15 Describe and draw the outline of a transverse section of the upper and lower halves of the turbinated bones in the horse and in the ox respectively.

ANATOMY

Tuesday, January 24, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Describe the superior maxillary bone.
- 2 Describe the bones and ligaments of the fetlock-joint (metacarpophalangeal joint).
- 3 Describe the flexor metatarsi muscle.
- 4 Describe the pulmonary circulation.
- 5 Describe the trigeminal (trifacial or fifth cranial) nerve.
- 6 Give the names and location of the principal groups of lymphatic glands.
- 7 Describe the larynx.
- 8 Describe the kidneys.
- 9 Mention in order the stomachs of the ox and describe the third stomach.
- 10 Describe the parotid salivary gland, including its duct.
- 11 Describe the uterus of the mare.
- 12 Of what structures is the spermatic cord composed?
- 13 Describe the cerebellum.
- 14 Describe the diaphragm of the ox.
- 15 Describe the mammary glands of the cow.

Tuesday, April 4, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 State the properties and describe the structural development of bone.
- 2 Mention the bones of the fore limb of the horse, the ox and the dog, and give the characteristic differences.
- 3 Describe the superior maxillary bone.
- 4 Mention the flexor muscles of the posterior limb, giving the action and use of each.
- 5 Mention the arteries and veins through which the blood moves in passing from the heart to the sole of the fore foot and return.
- 6 Mention the intestinal divisions and give their location in the abdominal cavity.
- 7 Describe the kidneys.
- 8 Describe the optic nerve, making use of a diagram.
- 9 Describe the brachial plexus of nerves.
- 10 Describe the lymphatic system of the intestines.
- 11 Give a minute description of the skin. Make a diagram of a cross section of the skin.
- 12 Mention the generative organs of the horse and mare. Describe the uterus of the cow.
- 13 Give the process of dentition. Describe the structural differences of the teeth of the horse, the ox and the dog.
- 14 Mention and describe the different kinds of joints.
- 15 Describe the mammary glands of the cow, mentioning all the structures that enter into them.

Tuesday, May 16, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Describe the ischium.
- 2 Describe the pelvis of the horse, and state the characteristic difference between the pelvis of the horse and that of the ox.
- 3 Give the minute anatomy of striped muscular tissue. State the difference between striped and unstriped muscular tissue.
- 4 What structures would be cut in amputating the leg just below the carpus?
- 5 Mention *five* muscles attached to the humerus and give the position of each.
- 6 State how the contractile portion of muscle is attached to bone.
- 7 Describe the great colon of the ox.
- 8 Describe the liver of the pig, and state in what respect it differs from the livers of other domestic animals.
- 9 Mention the branches of the external iliac artery, and state the tissues supplied with blood by these branches.
- 10 Mention and describe the nerves of the eye.
- 11 Mention and give the location of the lymphatic glands of the ox.
- 12 Describe the ligamentum nuchae of (a) the horse, (b) the ox, (c) the pig, (d) the dog.
- 13 Mention the digestive organs of the ox and discuss rumination.
- 14 Describe the spinal cord, making use of a diagram.
- 15 Give the blood and nerve supply of the heart.

ANATOMY

Tuesday, June 13, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 State the difference between the femur of the ox and that of the horse. Describe the femur of the horse.
- 2 Describe a lumbar vertebra.
- 3 Describe the liver of the ox.
- 4 Give a brief description of the alimentary canal of the chicken.
- 5 Describe the coxofemoral articulation.
- 6 State why a slip of the long vastus muscle is more common in the ox than in the horse.
- 7 Mention the cranial nerves.
- 8 Describe the laminae of the hoof.
- 9 Give the course and distribution of the great mesenteric artery.
- 10 Give the blood and nerve supply of the larynx.
- 11 Describe a permanent molar of the horse.
- 12 Describe the coverings of the testicle.
- 13 Describe a lymphatic gland and mention the principal ones of the intestinal tract.
- 14 Mention the sinuses of the head and describe *one* of them.
- 15 Describe the trachea of the horse.

PHYSIOLOGY AND HYGIENE

Tuesday, September 27, 1898—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Explain the movements of lymph.
- 2 State the differences between the physical character of lymph and that of chyle.
- 3 Define *absorption, inhibition, anabolism*.
- 4 State the function of the larynx.
- 5 What effect is produced by the bisection of the laryngeal nerves?
- 6 Describe the proper care of a horse when drenched with perspiration at the end of a hard drive.
- 7 State the function of the vagus nerves.
- 8 State the function of the kidneys. Give an account of their excretion.
- 9 State the function of the udder. Give an account of its secretion.
- 10 State the function of the corpora nigra (pigmentary bodies of the iris).
- 11 State the function of the valves of the heart.
- 12 Mention the conditions essential to animal life.
- 13 Describe the process of digestion.
- 14 State the function of the articular cartilage.
- 15 What is the function of a red blood-corpuscle?

PHYSIOLOGY AND HYGIENE

Tuesday, January 24, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 State the difference between animals and plants in respect to mode of growth.
- 2 Describe animal cell life.
- 3 State the functions of the blood.
- 4 Mention the proteids of the blood. Describe a red blood-corpuscle.
- 5 Define *pulmonic circulation, systemic circulation, cardiac cycle*.
- 6 Mention the functions of the saliva, giving average daily secretion.
- 7 Describe the physical peculiarity of the stomach in ruminants.
- 8 Give the source of animal heat.
- 9 Describe reflex action as it is manifested in the fibers of an afferent and an efferent nerve root.
- 10 Mention the *three* classes of sympathetic nerve ganglia, stating the function of each.
- 11 Mention the diseases incident to faulty feeding. State the effect of impure water as a source of disease.
- 12 How should a stable in which tuberculous animals have been housed be cleansed and disinfected?
- 13 Describe the proper method of procedure in an incipient case of glanders. Explain.
- 14 How should a dairy stable be constructed? What should be the character of its contiguous surroundings?
- 15 Mention diseases of the lower animals that render their flesh unfit for human food.

PHYSIOLOGY AND HYGIENE

Tuesday, April 4, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Mention the organs that excrete water.
- 2 Give the theory respecting the use of mallein and state the dose.
- 3 State the difference between chyme and chyle.
- 4 Describe the sounds of the heart and state the causes of these sounds.
- 5 Describe briefly the excretion of urine by the kidneys.
- 6 If oats should constitute the principal food of a horse, what would be the chemical reaction of the urine?
- 7 State the cause of animal heat.
- 8 What organ is the chief seat of urea formation?
- 9 Mention *one* fluid of the body having an alkaline reaction; *one* fluid having an acid reaction.
- 10 Give the specific gravity and the chemical composition of lymph.
- 11 Mention the cranial nerves:
- 12 State the functions of the spinal cord.
- 13 What change takes place in the blood while it is passing through the lungs?
- 14 State the functions of the liver.
- 15 State the function of the red blood-corpuscles.

PHYSIOLOGY AND HYGIENE

Tuesday, May 16, 1899 — 1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Define *blood pressure*.
- 2 Describe the act of respiration.
- 3 State the functions of the liver.
- 4 State the essentials of digestion in the alimentary canal.
- 5 State the functions of the sympathetic nervous system.
- 6 Describe gastric digestion in ruminants.
- 7 What are the differential qualities of the urine in herbivorous and in carnivorous animals?
- 8 Explain *three* ways in which waste matter is excreted from the system.
- 9 State the functions of the spinal cord.
- 10 What influence does the nervous system exert over the process of secretion?
- 11 On a dairy farm from which milk is sold what diseases of man should be isolated?
- 12 Mention the chemical elements of the animal body.
- 13 Mention the most important excretory or eliminative organ of the body, stating fully its function.
- 14 State the theory respecting the use of tuberculin.
- 15 Describe protoplasm.

PHYSIOLOGY AND HYGIENE

Tuesday, June 13, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Define *protoplasm*.
- 2 What are the *leucocytes of the blood*? In what proportion do they exist?
- 3 What is the difference in function between the pneumo-gastric and the sympathetic nerves of the heart?
- 4 Explain the mechanism of respiration.
- 5 State the function of the gastric secretion.
- 6 What are the essentials of digestion?
- 7 Describe the process of absorption.
- 8 Show by diagram the structure of the kidneys. State the function of the kidneys.
- 9 What are the usual abnormal constituents of urine?
- 10 Give the varieties, structure and function of nerve fibers.
- 11 Define *automatism, augmentation, inhibition, coordination, conduction*.
- 12 Define *hygiene*.
- 13 Define *heredity*.
- 14 Can the blood absorb odors from inspired air? Explain.
- 15 What means should be used to prevent the spread of abortion in a dairy where one or more cows show symptoms of the disease?

College Department

15th Veterinary Examination

CHEMISTRY

No.

Place

Wednesday, September 28, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *molecule*, *atom*, *salt*, *alloy*, *amalgam*.
- 2 Give the properties of (a) corrosive sublimate, (b) peroxid of hydrogen.
- 3 Distinguish between organic and inorganic substances.
- 4 Give a test for sugar in the urine.
- 5 Describe a method of preparing hydrogen.
- 6 Mention the antidotes that should be prescribed in cases of poisoning by (a) caustic alkalis, (b) carbolic acid, (c) opium.
- 7 Describe the preparation of ozone and give its properties.
- 8 What is an *alkaloid*? Mention *three* common alkaloids.
- 9 Give the formula and properties of (a) nitric acid, (b) chlorate of potassium.
- 10 Distinguish between a mixture and a compound and give an example of each.
- 11 Give the symbols and atomic weights of *five* of the following: gold, silver, sodium, mercury, iron, potassium, arsenic.
- 12 Give the composition, properties and method of preparation of nitrous oxid.
- 13 Describe some method of testing for arsenic.
- 14 State the composition of the atmosphere.
- 15 Distinguish the properties of carbonate of lithia from those of citrate of lithia.

CHEMISTRY

Wednesday, January 25, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Define *molecule, atom, element, acid, base.*
- 2 What is *ozone*? Give its formula and properties.
- 3 Describe the preparation and give the properties of carbon monoxid.
- 4 Mention the properties and uses of potassium permanganate.
- 5 What are *alcohols*? Mention *three* different forms of alcohols.
- 6 What is *glucose*? For what purpose is it generally used?
- 7 What are *alkaloids*?
- 8 What is *fibrin*?
- 9 State the cause of albumin in the urine.
- 10 Mention the best test for hemoglobin.
- 11 What is the indican of urine?
- 12 What are *ptomains*?
- 13 What are *leucomaines*?
- 14 What are *fats*?
- 15 State the properties of ferrous sulfid.

College Department

17th Veterinary Examination

CHEMISTRY

No.

Place

Wednesday, April 5, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

- 1 Mention the elements that form the chief constituents of the animal body.
- 2 State the law of definite chemical proportion as applicable to synthesis.
- 3 Define *atom*, *molecule*.
- 4 What are the characteristics of metallic and non-metallic elements respectively?
- 5 Define *alkali*, *alkaloid*. Give examples of each, and of compounds of each.
- 6 Give salts of lead, mercury and silver respectively, in solution in different vessels, and state how the presence of each may be determined by analysis.
- 7 What indications in water suggest contamination by sewage?
- 8 What is a *soap*? Give the chemical reactions and the surplus products that occur in its manufacture.
- 9 How may the presence of bile in urine be determined?
- 10 How may the presence of arsenic in a solution of organic products be determined?
- 11 How may the presence of glucose in urine be determined?
- 12 How may the per cent of butter fat in a specimen of milk be determined?
- 13 Give the chemical formula for potash alum. State how potash alum is prepared.
- 14 How may the presence of nitrites in pond or well water be determined?
- 15 Mention the toxic agents added to the air in breathing. What per cent of these agents is fatal to the animal respiring them? In what respect does contamination by breathing differ from contamination by burning carbon in air?

CHEMISTRY

Wednesday, June 14, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered.

1 What is the difference between physical and chemical change?

2 What is *analysis*?

3 Define *adhesion*, *cohesion*, *polarity*, *repulsion*.

4 Define *valency*.

5 What is *specific gravity*?

6 Mention 20 of the most important elements and give their symbols.

7 Give the physical and chemical properties of hydrogen.

8 What is *hydrochloric acid*? Give its physical and chemical properties and mention its important uses.

9 Give the composition and describe the properties of ammonia.

10 Give the composition and describe the properties of water.

11 Mention the common impurities of spring and well water.

12 In what respects does mercuric chlorid differ from mercurous chlorid? Give the common name and the most important use in medicine of each.

13 What is *starch*?

14 What is *phenol*?

15 What is *tannin*?

SURGERY

Wednesday, September 28, 1898—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Describe wound-fever.
- 2 Outline aseptic handling of wounds.
- 3 Mention chief accidents to animals in confining for operations and show how such accidents may be avoided.
- 4 Give the pathology of poll-evil.
- 5 Give the differential physical diagnosis between nasal glanders and nasal discharge from a diseased tooth.
- 6 Give the therapeutics of bone spavin.
- 7 Give the treatment of foreign body in the esophagus.
- 8 Describe puncture of the cecum.
- 9 Give the diagnosis and prognosis of penetrating wounds of the chest.
- 10 Give the symptoms and diagnosis of pus in the guttural pouches.
- 11 Describe median neurotomy and state its uses.
- 12 Give the symptoms of navicular disease.
- 13 Describe vaginal castration of the mare and of the cow.
- 14 Describe amputation of the penis.
- 15 Describe the treatment of corns.

SURGERY

Wednesday, January 25, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Describe the processes of the healing of wounds.
- 2 Describe septicemia and pyemia.
- 3 Give the symptoms of actinomycosis, botryomycosis and bursatee.
- 4 Give the sources and prevention of wound infection.
- 5 Give the clinical diagnosis of nasal glanders, strangles, nasal tumor, suppuration of the guttural pouches and tumors or suppuration of the fangs of the upper molars.
- 6 Give the treatment of pus collections in nasal sinuses.
- 7 Give the symptoms and treatment of penetrating wounds of the chest.
- 8 Describe technically the manipulations in rumenotomy in the cow, and in trocarization of the rumen of the cow and colon of the horse respectively.
- 9 Describe vaginal ovariectomy in the mare and in the cow.
- 10 Give the diagnosis of navicular disease.
- 11 Give the treatment of open joint.
- 12 Give the diagnosis of bone spavin.
- 13 Give the pathology and treatment of ring-bone.
- 14 Give the pathology and treatment of tendo-vaginitis.
- 15 State the dangers attending chloroform anesthesia and show how they may be avoided.

SURGERY

Wednesday, April 5, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

1 Describe the pathologic changes that take place during an inflammatory process terminating in resolution.

2 Give the causes and treatment of inflammation.

3 Describe the different modes of healing.

4 How should a horse having a deep lacerated wound on the front of the fore limb be treated and cared for?

5 How should an abscess following the use of the trocar be treated?

6 How should an umbilic hernia be treated in (a) a colt two weeks old, (b) a colt two years old?

7 Describe the treatment of a quarter-crack in (a) a heavy draft-horse, (b) a horse used for light road work. [Make use of a diagram.]

8 Give the cause, pathology, symptoms and treatment of scirrhus cord.

9 Give the causes, pathology and treatment of fibrous tumors (collar galls) on the shoulder of a draft-horse.

10 Describe the treatment and care of a comminute fracture of the hock.

11 Describe neurectomy.

12 Describe tenotomy.

13 Give the position for trephining the roots of the fourth upper molar in a horse of mature age. Describe the method of operating and state the precautions to be taken.

14 Describe the operation of castration of the horse.

15 How should a simple fracture of the os suffraginis of the anterior limb be treated?

SURGERY

Wednesday, June 14, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Mention and describe the various methods of healing.
- 2 Describe the care and treatment of a deep lacerated wound of the quarter of the hoof.
- 3 Describe the care and treatment of shoe-boil (a) of recent origin, (b) of long standing.
- 4 Describe in full ovariectomy in the bitch, giving care and after treatment.
- 5 Give the prognosis and treatment of a comminute fracture of a metatarsal bone.
- 6 Give the symptoms, prognosis and treatment of the various forms of spavin.
- 7 Give the prognosis and treatment of enlarged thyroid gland (goiter) in (a) the horse, (b) the dog.
- 8 Give the symptoms and treatment of renal calculi.
- 9 Give the symptoms, prognosis and treatment of scrotal hernia.
- 10 Give the symptoms and treatment of nasal polypus.
- 11 Give the diagnosis, prognosis and treatment of fracture of the acetabulum.
- 12 What is meant by *antiseptic surgery*?
- 13 Give the pathology, symptoms and treatment of panaritium (hoof-ail) of the ox.
- 14 Give the care and treatment of a deep lacerated wound between the shoulder and the thoracic cavity. What complications are frequently associated with this injury?
- 15 Give the pathology, symptoms and treatment of malignant edema.

Thursday, September 29, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Give treatment of edema of the umbilicus.
- 2 Are spermatozoa always found in the semen? Explain.
- 3 Give the differential diagnosis of prolapse of the vagina and that of the uterus.
- 4 How soon after calving is the milk fit for use?
- 5 Give the causes, symptoms and treatment of navel-ill.
- 6 What is the name given to difficult labor?
- 7 Describe the mammary gland of the cow.
- 8 Describe the uterus of the bitch.
- 9 Describe the pelvis of the goat.
- 10 Give the fetal circulation, beginning with the right ventricle.
- 11 Give the treatment of mammitis.
- 12 Give causes, symptoms and treatment of retained placenta in a cow.
- 13 Give the treatment of rigidity of the os uteri in labor.
- 14 Mention the bones that form the pelvic cavity.
- 15 Mention the ligaments of the pelvis.

OBSTETRICS

Thursday, January 26, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Mention and describe the lateral ligaments of the sacrum and pelvis.
- 2 State the differences between the male pelvis and the female pelvis.
- 3 Describe in detail the ovaries of the cow.
- 4 In a milch cow, what effect does a succeeding pregnancy have on the flow of milk?
- 5 Explain the secretion of milk.
- 6 Describe the milk of a cow, giving its specific gravity and its chemical analysis.
- 7 Give the method of delivering an anterior presentation (fore limb crossed over neck).
- 8 Give the method of delivering an anterior presentation (downward deviation of the head).
- 9 Draw diagrams of at least *two* kinds of trusses used in the treatment of prolapse of the vagina.
- 10 What is *hydrocephalus*? Give its diagnosis and state how it complicates labor.
- 11 What is meant by *agalorrhea*? Give the treatment of agalorrhea.
- 12 Describe the development of the respiratory apparatus.
- 13 State the difference between the mammae of the cow and those of the pig.
- 14 At what period are pregnant animals subject to colic? Give treatment.
- 15 Give the method of delivering an anterior presentation (deviation of the hind limbs in the pelvis).

OBSTETRICS

Thursday, April 6, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Give the nerve supply of the uterus.
- 2 Give the treatment of retained placenta in the cow.
- 3 Describe the sacrum.
- 4 Describe the mammae of the sheep.
- 5 Describe the milk of the goat and give its chemical composition.
- 6 State the function of the umbilic cord.
- 7 State the duration of pregnancy in (a) the pig, (b) the sheep.
- 8 Why is it that uniparous animals occasionally have twins?
- 9 Where is the foramen of Botallo? State its function.
- 10 Give the treatment of leucorrhea.
- 11 Give the treatment of diarrhea in a calf one week old.
- 12 Give the cause and treatment of colic in the new-born colt.
- 13 Give the fetal circulation.
- 14 In prescribing a physic for a pregnant mare, what precautions are necessary?
- 15 How soon after a cow has calved is her milk good for human consumption?

OBSTETRICS

Thursday, June 15, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Describe the uterus and ovary of the sheep.
- 2 Describe the escape of the ovum from the ovisac.
- 3 Define *obstetric physiology*.
- 4 State the use of the impregnator and give the method of using this instrument.
- 5 Describe the differences between the maternal and the fetal cotyledons.
- 6 Mention the different diameters of the pelvis.
- 7 Describe the method of delivering a cephalo-sacral presentation (dorso-lumbar position).
- 8 Describe the secretion of milk.
- 9 Describe the method of delivering an anterior presentation (dorso-lumbar position), fore limbs flexed at the knees.
- 10 Make a drawing of at least *two* different kinds of pessaries and describe the use of each kind.
- 11 Make a drawing of at least *two* different kinds of trusses and describe the use of each kind.
- 12 Make a drawing and state the use of an umbilic clam.
- 13 Define *obstetric anatomy*.
- 14 In umbilic hemorrhage in a colt, does the hemorrhage come from the vein or the artery? Give treatment.
- 15 State how to determine the differences between a new-born calf and a calf about four weeks old.

PATHOLOGY, DIAGNOSIS AND PRACTICE**Thursday, September 29, 1898—1.15 to 4.15 p. m., only**

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Apart from microscopic examination how may anthrax be distinguished from black quarter?
- 2 Give distinguishing characteristics of the microbes of anthrax and black quarter, including pathogenesis.
- 3 How may anthrax be eradicated from a locality?
- 4 Give the cause, diagnosis and treatment of tetanus.
- 5 Give the known causes, symptoms and treatment of acute lymphangitis.
- 6 What causes and lesions give rise to chronic laryngeal dyspnoea (roaring)?
- 7 Give the diagnosis and treatment of (a) slight roaring, (b) severe roaring.
- 8 What symptoms indicate pneumonia? State the lesions present in the successive stages of pneumonia.
- 9 Differentiate red eczema and acariasis in dogs.
- 10 Give the diagnosis of ringworm in cattle and prescribe treatment.
- 11 Give, with treatment, distinctive symptoms of epilepsy in the dog.
- 12 How may paralysis of the hind limb due to lesion of the sciatic nerve be distinguished from paralysis due to lesion of the lateral half of the spinal cord?
- 13 Give the known causes and symptoms of recurrent (specific) ophthalmia and prescribe treatment.
- 14 What symptoms indicate dilatation of the right heart?
- 15 What lesions and conditions render pork unfit for human food?

PATHOLOGY, DIAGNOSIS AND PRACTICE**Thursday, January 26, 1899—1.15 to 4.15 p. m., only**

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

1 Give the morphologic characteristics of the different classes of pathogenic bacteria and state in general terms how these bacteria cause disease.

2 In what does immunity consist, and how may it be conferred when not present from birth?

3 Under what conditions does bronchial dilatation occur? How may it be recognized and treated?

4 Give the symptoms of pharyngeal tubercle. How may it be distinguished from other pharyngeal diseases?

5 Describe cowpox and horsepox. What is their mutual relation and what precautions should be taken to prevent their propagation?

6 State the class of animals susceptible to strangles. Give the lesions and symptoms of strangles in its regular and irregular forms. Mention its treatment and the best methods of prevention.

7 State the causes, symptoms and treatment of twisting of the double colon.

8 Diagnose (a) simple spasmodic colic, (b) intestinal indigestion with tympany. Give the treatment of each.

9 State the causes, symptoms and treatment of tetanus.

10 Give the causes, symptoms and treatment of hemoglobinuria.

11 Give the symptoms and treatment of acute lead poisoning in cattle.

12 Give the probable causes, the lesions, the diagnostic symptoms and the treatment of diarrhea.

13 State the usual causes, the symptoms and treatment of vertigo.

14 Describe infarction of the lung, state how it is produced and give its probable results.

15 State the usual causes, the lesions, symptoms and treatment of endocarditis.

PATHOLOGY, DIAGNOSIS AND PRACTICE

Thursday, April 6, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

1 What animals suffer from the larvae of oestrus in the stomach? To what part of the stomach and in what manner are these larvae attached? Mention the different species of oestrus found in the stomach, and give their morbid effects and their treatment.

2 Mention the symptoms that indicate chronic hepatitis. Give treatment.

3 Describe the lesions found in acute internal arteritis.

4 In case of inflammation or other disease of lymph glands what special forms of infection or of neoplasms would probably be found in the different animals?

5 Give the symptoms of neoplasm involving the upper and lower roots of a spinal nerve. In case the myelon (spinal cord) were implicated what symptoms would appear?

6 Give the symptoms of inflammation affecting a lateral half of the spinal cord between the third and the fourth cervical vertebra.

7 State the pathologic distinctions between croupous pneumonia and catarrhal pneumonia.

8 State the common causes, the symptoms and treatment of colic in the dog.

9 What animals harbor parasites in the gall-duct and gall-bladder respectively? Mention the parasites peculiar to each animal and give the symptoms and treatment in each case.

10 In case of dropsy how may the cause be ascertained?

11 State the different forms of acariasis in the horse and give the symptoms and treatment. Give the name of the acarus causing this disease and state its habits.

12 State the causes and lesions of thrush (muguet) in animals. Give prevention and treatment.

13 State the causes, symptoms and treatment of strangles. How may strangles be prevented? How may animals be rendered immune?

14 Make a differential diagnosis of anthrax and black quarter (symptomatic anthrax). Give the symptoms and treatment of black quarter. Give directions for prevention in regard to soil, water, buildings and inoculation.

15 Make a differential diagnosis of sunstroke (thermic fever) and heat exhaustion. Give the treatment of each.

PATHOLOGY, DIAGNOSIS AND PRACTICE

Thursday, May 18, 1899—1.15 to 4.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Mention the trematode worms that affect sheep and give their habitats in and out of the mammal.
- 2 What domestic animals harbor the coenurus in its different forms? Give the symptoms, the method of communication from animal to animal, the prevention and treatment.
- 3 What dipterous insects live in the alimentary canal of solidipeds and at what points? Give the symptoms, prevention and treatment.
- 4 Give the causes, symptoms and treatment of iritis.
- 5 What changes occur in the blood in extensive inflammation?
- 6 What symptoms indicate impaction of the crop? How should it be treated?
- 7 State the causes and symptoms of intussusception (invagination) of the bowel. At what point does it mostly occur, and how may it be treated?
- 8 Give the symptoms of pulmonary glanders.
- 9 In urinary casts containing epithelium, what would indicate the seat of origin, as the convoluted tubes, the pelvis of the kidney, the ureter or the bladder?
- 10 Differentiate hydrothorax and hydropneumothorax. Give the causes and treatment of each.
- 11 In percussion of the chest state the modifications caused by the heart, and give the area, as related to the different ribs, over which these modifications would be noticed.
- 12 What animals are most subject to biliary calculi? Give the causes, prevention and treatment of biliary calculi.
- 13 State the causes and general treatment of albuminuria. Give the tests for albumin.
- 14 Give the causes, symptoms and treatment of paralysis of the urinary bladder.
- 15 Give the causes, symptoms and treatment of cerebral hyperemia.

PATHOLOGY, DIAGNOSIS AND PRACTICE**Thursday, June 15, 1899—1.15 to 4.15 p. m., only**

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

1 Under what precautions can blood and solid tissues, such as the liver, be safely secured for microscopic and bacteriologic examination?

2 Mention a disease in cattle due to a protozoan. How is it inoculated and how prevented?

3 What tumors are formed of cholesterin? Give the symptoms of these tumors.

4 What agents besides hematoidin and hemoglobin give a red color to urine?

5 Under what conditions is the ammonio-magnesium phosphate precipitated in urine or in egesta?

6 How may dourine be distinguished from coital exanthema? Give treatment and prevention.

7 State the different forms of acariasis in chickens. Give symptoms and treatment.

8 What symptoms indicate trichinosis in swine? Give treatment and prevention.

9 State the habitat and habits of the *Ascaris megalocephala*. Give treatment and prevention.

10 Give the symptoms and lesions of croupous pneumonia in its successive stages.

11 What symptoms indicate dilation of the heart? Give causes and treatment.

12 State the causes and symptoms of traumatic pericarditis in cows, differentiating it from the non-traumatic form.

13 State the symptoms of verminous colic and mention a worm that commonly causes it. State the most injurious habitat of this worm.

14 Give the causes, symptoms, successive lesions and the treatment of acute nephritis.

15 State the causes and symptoms of osteoporosis. Give prevention and treatment.

THERAPEUTICS AND MATERIA MEDICA

Friday, September 30, 1898—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Give the sources of atropia and explain its action.
- 2 Describe the action of chloroform. State the dangers of using chloroform and how they may be avoided.
- 3 Give the source, uses and action of quinin.
- 4 State the properties and source of salicylic acid. Give the use, action and dose of salicylic acid in the treatment of the horse and of the ox.
- 5 Mention the medicinal uses of gentian root and state the dose for the horse and for the ox.
- 6 Mention *two* remedies commonly used to promote intestinal peristalsis.
- 7 Write a prescription for spasmodic colic.
- 8 Describe the physiologic action of *each* of the following on the circulation: alcohol, ammonia, digitalis.
- 9 State the preparation and properties of pepsin.
- 10 Give the treatment for a case of poisoning by (a) belladonna, (b) chloral hydrate.
- 11 State the properties and toxic effects of cyanogen.
- 12 Give the treatment of (a) erysipelas, (b) eczema, (c) grease heel. Write a prescription for each.
- 13 Mention *three* vegetable remedies that may be advantageously employed in urethritis.
- 14 What is *tuberculin*? Under what circumstances is its use admissible?
- 15 State the medicinal uses and physiologic effects of conium.

THERAPEUTICS AND MATERIA MEDICA

Friday, January 27, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 What is *tar*? Give its uses and action.
- 2 What is *terebene*? Give its uses and action.
- 3 Give the sources of lithium. Mention the physiologic effects and the uses of lithium salts.
- 4 What is *cascara sagrada*? State its uses and the dose for the horse and the dog.
- 5 What is *apomorphin*? State its uses and the dose for the dog.
- 6 What is *mustard*? State its uses and the doses prescribed.
- 7 What is *ether*? State its physiologic effects, its uses and the dose for the horse, the cow and the dog.
- 8 Give the symptoms and treatment of atropin poisoning in the horse and the dog.
- 9 Give the symptoms and treatment of aconite poisoning.
- 10 For what diseases is opium prescribed?
- 11 What are the *mineral acids*? State their doses.
- 12 What is *woorara*? Give its effects and uses.
- 13 What remedies are used for the destruction of ascarides?
- 14 The dose of a medicine given by the mouth being one grain, what would be the equivalent dose for hypodermic use?
- 15 Define *materia medica*.

THERAPEUTICS AND MATERIA MEDICA**Friday, April 7, 1899—9.15 a. m. to 12.15 p. m., only**

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 Mention a motor excitant of *each* of the following classes of muscles: voluntary, cardiac, intestinal. Give the dose for the different domestic animals of each excitant mentioned.
- 2 State the relative dangers of the administration by inhalation of chloroform and ether. What precautions should be taken and how should an overdose be treated?
- 3 State the general principles of serum and antitoxin therapy.
- 4 What drugs could be used successively to produce alternate contraction and dilation of the pupil? State in each case the preparation, the dose, and the mode of application.
- 5 Define *collyrium*. Prescribe the following collyria: (a) astringent, (b) astringent and analgesic, (c) antiseptic.
- 6 Define *cholagogue*. Give specimens with doses for the different domestic animals.
- 7 Write a prescription containing a cathartic for the horse, ox, sheep, swine and dog respectively.
- 8 Give the symptoms of poisoning by morphin and state the antidote.
- 9 Define *cocain*. Mention the preparations, the doses, and the general and the local physiologic action of cocain.
- 10 Describe the preparation of salicylic acid and give its uses in medicine.
- 11 State the source, preparation and uses of acetanilid.
- 12 Give the source and preparation of glycerin. State the uses of glycerin in pharmacology and medicine.
- 13 State the source, the pharmaceutic preparations and the uses of arsenious acid.
- 14 Give the origin, preparation and uses of salicin.
- 15 Write a prescription for the treatment of ringworm.

THERAPEUTICS AND MATERIA MEDICA

Friday, June 16, 1899—9.15 a. m. to 12.15 p. m., only

Answer any 10 of the questions on this paper but no more. Check the number (✓) of each one of the questions you have answered. Unless otherwise stated all questions relate to the horse.

- 1 State the general indications for the use of diuretics. Mention *six* diuretics and state the dose of each for the horse, the cow and the dog.
- 2 Mention *three antispasmodics*. Describe their physical properties and state the dose of each for the horse, the cow and the dog.
- 3 Mention *three acid tonics*.
- 4 What is *acetanilid*? Describe its physiologic and its therapeutic action, and state the dose for the horse, the cow and the dog.
- 5 What are the chief indications for the use of quinin?
- 6 What are the chief indications for the use of opium?
- 7 Write prescriptions to relieve flatulent colic in a horse, a cow and a small toy terrier dog.
- 8 Write prescriptions to relieve cerebral congestion in a horse, a cow and a St Bernard dog.
- 9 Write a prescription for a horse suffering from chronic indigestion, acidity of the stomach, malnutrition and a tendency to diarrhea.
- 10 Mention *five* officinal preparations of potassium, state to what class of remedies each belongs and the dose of each for the horse, the cow and the dog.
- 11 Mention *five* officinal preparations of sodium and state to what class of remedies each belongs.
- 12 Mention *three* preparations of mercury and describe the therapeutic action of each.
- 13 What is *morphin*? Describe the action and uses in medicine of morphin.
- 14 What is *strychnin*? Describe the action and uses in medicine of strychnin.
- 15 Mention the chief indications for the use of cannabis indica.

College Department

5TH ACCOUNTANT EXAMINATION

THEORY OF ACCOUNTS

Tuesday, December 13, 1898—9.15 a. m. to 12.15 p. m., only

The regents of the University shall make rules for the examination of persons applying for certificates under this act, and may appoint a board of three examiners for the purpose

Laws of 1896, ch. 312, § 2

Answer the first five questions and five of the others but no more. If more than five of the others are answered only the first five answers will be considered. Each complete answer will receive 10 credits. Do not repeat questions but write answers only, designating by number as in question paper. Check the number (✓) of each one of the questions you have answered. Papers entitled to 75 or more credits will be accepted.

1 Define *debit, credit, debtor, creditor*. State the general law, growing out of the relationship of debtor and creditor, that governs double entry bookkeeping. What is the result of a debit entry? of a credit entry?

2 Mention the different classes into which accounts are usually divided. Give the names of the principal accounts of each class. Which class or classes of accounts close into loss and gain account? Mention the principal accounts common to mercantile bookkeeping and state the purposes of each.

3 Define *assets, liabilities*. What are *fixed assets, quick assets*? In making up a general statement of assets and liabilities, what groups of accounts constitute assets and what constitute liabilities? State how to treat, on closing the books, assets and liabilities accrued but not actually due (such as interest receivable and payable, taxes, insurance, commissions, salaries, rents).

4 Describe the different methods of determining the loss or gain of a business. How is the loss or gain of a business determined from books kept by single entry? State the usual mode of procedure when the books are kept by double entry.

5 State the purpose of (a) consignment account, (b) shipment or adventure account, (c) adventure joint account, (d) merchandise company account. Describe how each should be opened, conducted and closed.

6 Describe the entries necessary to open a set of double entry books. In what respect is the double entry system preferable to the single entry system?

7 Describe the process of changing single entry books to double entry. What additional accounts are required? Is it necessary to disturb any accounts already opened in the ledger, or to keep such accounts differently after the change?

8 Describe in detail the manner of closing a double entry ledger. How should the results of the business be stated? Why is property unsold credited to the account to which it belongs before closing? How should worthless and doubtful debts be treated in closing?

9 State the entries necessary to open a set of corporation books so that the assets may appear properly on the ledger. What books are necessary in corporation accounting that are not necessary in mercantile accounting? What does the capital account show? Define *preferred stock*, *common stock*, *watered stock*.

10 State the object of *each* of the following: plant account, capital account, surplus or reserve fund account, redemption fund account, depreciation account.

11 What should be done regarding the books on the admission of a new partner into a firm? What entry should be made (a) when cash is invested for a certain share in the gains and losses, (b) when a specified amount is paid to the old members for a certain share in the gains and losses?

12 What is understood by cost or factory bookkeeping? What is shown by the cost books? What are the principal items entering into the cost of manufactured products?

13 What is meant by the voucher system of bookkeeping? Describe the voucher record book.

14 How should executors' and administrators' accounts be stated for the purpose of filing in court? What does the summary of accounts usually include? What are *assets of the estate*? When are dividends, interest and rents to be treated as principal? Define an *intermediate account*. What is a *final account*? With what does the executor charge himself? For what does he take credit?

15 What is the duty of the assignee's accountant in the case of an assignment? How is the inventory stated? What are included in the schedules? How is the assignee's account stated for submission to the court? What does the summary of account usually include? With what does the assignee charge himself? For what does he take credit?

College Department

6TH ACCOUNTANT EXAMINATION

THEORY OF ACCOUNTS

Tuesday, June 13, 1899—9.15 a. m. to 12.15 p. m., only

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Laws of 1896, ch. 312, § 2

Answer the first five questions and five of the others but no more. If more than five of the others are answered only the first five answers will be considered. Do not repeat questions but write answers only, designating by number as in question paper. Check the number (✓) of each one of the questions you have answered. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 State and explain the *two* principal purposes for which accounts are kept.

2 What important features of a business are shown by double entry bookkeeping that single entry books can not show? Explain clearly.

3 Describe the ordinary merchandise account and state its purpose. Does it fully accomplish the purpose desired? Give reasons for your answer.

4 Describe a voucher record and the process of conducting a vouchers payable system. State fully the advantage of this system.

5 Recommend, with all necessary explanations, a set of books peculiarly adapted to the use of a firm that deals exclusively in butter, cheese and eggs, at wholesale, retail and on commission, and has three branches in the same city, the books being kept at the main store.

6 Define the following terms as applied to accounts: *personal, real, nominal, resource, liability*. Mention *two* real and *three* nominal accounts.

7 Describe the nature of the following accounts: consignment, trading, suspense, construction, subscription.

8 Formulate and explain a rule for determining whether an account should be debited or credited in any given transaction. Explain the application of the principle.

9 Describe a safe and easy system of keeping the account of goods returned, (a) as buyer, (b) as seller.

10 State explicitly and fully the function of the profit and loss account. Distinguish between the function of the profit and loss account and that of the balance sheet.

11 Some proprietors keep a private ledger of their business, to which bookkeepers and clerks have no access. Explain the purpose of such a book, and show what accounts it usually contains and how it is made to agree with the general ledger.

12 State the theory and purpose of *each* of the following, and show wherein they differ: (a) reserve fund, (b) sinking fund.

13 State the general theory of the balance sheet. On what theory does the English form of balance sheet differ from the continental and American form? Give an argument either for or against the English form.

14 Define *permanent assets*, *floating assets*. Show how each should be treated in ascertaining the standing of a business at any specified time. State the theory of each step in the process.

15 Describe *two* forms of sales ledger and the process of entering the sales in each. Explain the advantage of each form.

College Department

5TH ACCOUNTANT EXAMINATION

PRACTICAL ACCOUNTING

Tuesday, December 13, 1898—1.15 to 5.15 p. m., only

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Laws of 1896, ch. 312, § 2

Answer questions 1 and 2 and two of the others but no more. If more than two of the others are answered only the first two answers will be considered. Each complete answer will receive 25 credits. Do not repeat questions but write answers only, designating by number as in question paper. Check the number (✓) of each one of the questions you have answered. Papers entitled to 75 or more credits will be accepted.

1 A corporation is organized to conduct a manufacturing business with a declared capital of \$2,000,000, divided into 20,000 shares of the par value of \$100, of which 15,000 shares or \$1,500,000 shall be preferred stock and 5000 shares or \$500,000 common stock. The corporation purposes to issue \$500,000 in consolidated mortgage bonds to be used toward the purchase of sundry properties. The amount of capital with which the corporation begins business is \$50,000, being the proceeds of subscriptions for 500 shares preferred stock.

To carry out the purposes of said corporation, the real estate, water power, machinery, good will, etc. of certain existing corporations have been purchased at an appraised valuation of \$2,000,000, viz, Diamond m'f'g co. \$200,000, Eureka m'f'g co. \$300,000, Champion m'f'g co. \$500,000, American m'f'g co. \$600,000, Aetna m'f'g co. \$400,000, and in payment full paid stock and bonds have been issued at par on a basis of 60% in preferred stock, 20% in common stock and 20% in bonds.

Material and supplies are to be paid for in cash when their value is determined.

Formulate the entry necessary to open the books of the new corporation.

2 A, B & C agree to start in business with a capital of \$400,000, of which A is to furnish \$200,000, B \$100,000 and C \$100,000. A is to have $\frac{1}{2}$ interest in the business, and B and C each $\frac{1}{4}$ interest, and interest at the rate of 5% per annum is to be paid on

excess capital, if any. A contributes \$200,000, B \$90,000 and C \$80,000.

How would the capital accounts stand on the books after adjusting the interest account at the end of one year?

3 From the following trial balance of a small railway company, make up a condensed balance sheet, an income account and a profit and loss account:

| | | |
|---|----------------|----------------|
| Capital stock, common | | \$1,153,000 00 |
| " preferred | | 142,200 00 |
| " preferred scrip | | 5,450 00 |
| First mortgage bonds | | 1,332,000 00 |
| Cost of road and equipment | \$2,659,252 32 | |
| Cash | 2,452 56 | |
| Bills payable | | 20,321 86 |
| Accounts payable | | 6,331 78 |
| Agents and conductors | 1,708 80 | |
| Individuals and companies | | 67,187 24 |
| Foreign companies' mileage | | 87 12 |
| " tickets | | 196 36 |
| U. S. P. O. department | 771 34 | |
| Blank express company | 916 36 | |
| Agents' drafts on treasurer | | 145 94 |
| Prepaid advances for other lines | | 32 |
| Back charges | 18 36 | |
| Overcharges on freight | 19 84 | |
| Car mileage balance | | 99 88 |
| Southwestern railway company | | 734 90 |
| Earnings, passenger | | 8,135 84 |
| " freight | | 11,386 78 |
| Earnings, mail | | 1,546 96 |
| " express | | 3,494 52 |
| Operating expenses | 20,771 10 | |
| Interline freight account accrued | 54 | |
| Interline ticket account accrued | | 359 76 |
| Taxes | 1,184 00 | |
| Interest on bonds | 111,000 00 | |
| Interest and discount | 194 78 | |
| Insurance paid in advance | 123 98 | |
| Taxes paid in advance | 2 253 50 | |
| Profit and loss | 20,013 78 | |
| Coupons due and unpaid | | 68,002 00 |
| Total | \$2,820,681 26 | \$2,820,681 26 |

4 John Roe dies, bequeathing his entire property, after payment of all debts and funeral expenses, to the following beneficiaries, viz, $\frac{1}{4}$ to John Roe jr, $\frac{1}{4}$ to George Roe, $\frac{1}{4}$ to William Roe, $\frac{1}{10}$ to Mary Roe and $\frac{1}{10}$ to Frank Doe.

The inventory filed by his executors was as follows: stocks and bonds \$100,000, bonds and mortgages \$150,000, furniture and wearing apparel \$1,500, cash in bank \$1,000.

There are two executors and their transactions are as follows:

Cash receipts: stocks and bonds sold \$83,525.50, bonds and mortgages paid in \$116,422.73, furniture and wearing apparel sold \$1,247.28, dividends collected on stocks and bonds \$45,422.50, interest collected on bonds and mortgages \$62,527.87, interest received on deposits in bank \$1,083.48, real estate sold \$25,000, rents collected \$18,000.

Cash disbursements: funeral expenses \$750, expenses of probating will \$5,000, general legal services \$10,000, rent of safe in safe deposit company \$450, publishing citations \$35.75, care of cemetery lot \$400, repairs to real estate appurtenances \$5,724.68, premium on executors' bond \$1,250, stationery, postage, etc. \$125.38, accountant's services \$2,000, debts of deceased \$12,472.41, taxes \$20,672.48, assessments for improvements to real estate \$471.83, insurance \$250, John Roe jr, account of legacy \$55,000, George Roe, account of legacy \$62,500, William Roe, account of legacy \$55,500, Mary Roe, account of legacy \$77,500, Frank Doe, account of legacy \$24,000.

The inventory at the date on which they wish to account is as follows: stocks and bonds \$25,000, bonds and mortgages \$32,000, cash in bank \$20,126.83.

Required, to make up the summary statement of the executors' accounts, separating principal and income, and showing the balance due each legatee and the amount of the executors' commissions.

5 John Fleming & Co. make an assignment for the benefit of creditors August 21, 1896. The books show the following assets and liabilities at that date: machinery and tools \$7,524.61, merchandise \$6,423.72, supplies \$471.08, store and office fixtures \$1,524.67, accounts receivable \$4,071.29, cash in bank and in office \$524.19, wages and salaries \$624.71, unpaid taxes \$432.12, chattel mortgage \$7,500, accounts payable \$3,471.20, bills payable \$4,424.68.

The assignee had an appraisal made as follows: machinery and tools \$4,724.19, merchandise \$4,819.24, supplies \$194.17, store and office fixtures \$624.23.

Of the accounts receivable \$721.18 are considered worthless. The bank claims \$500 of the cash balance to meet a bill receivable to that amount, discounted on the day of assignment. The

mortgage above noted covers the machinery and tools and is dated June 1, 1894; interest at 6% paid to the last due date. There are insurance policies on the contents of the store for \$10,000, dated July 1, 1896, one year, at 75 cents. The firm has discounted its bills receivable from time to time, and \$2,427.21 (including the \$500 note above mentioned) is outstanding at the time of the assignment.

Required, to make up the assignee's inventory and schedules and to show the amount of assets for which he would be obliged to give a bond.

6 Messrs Doe & Roe are partners in business, sharing gains and losses equally.

Required, a statement showing the gains and losses by both the resource and liability method and the loss and gain method, and also the net capital of each partner, on the basis of the following trial balance of their double entry ledger at the close of the fiscal year:

| | | |
|---------------------------------------|--------------------|--------------------|
| John Doe, investment..... | | \$8,405 26 |
| Richard Roe, investment..... | | 8,405 28 |
| Cash..... | \$9,017 33 | |
| Merchandise..... | 3,424 89 | |
| Bills receivable..... | 12,000 00 | |
| Bills payable..... | | 8,350 00 |
| Expense..... | 576 00 | |
| Interest..... | 129 74 | |
| Loss and gain..... | 250 00 | |
| Sundry book accounts receivable..... | 3,566 00 | |
| “ payable..... | | 3,803 42 |
| | <u>\$28,963 96</u> | <u>\$28,963 96</u> |
| Inventory of merchandise on hand..... | | \$8,000 |

College Department

6TH ACCOUNTANT EXAMINATION

PRACTICAL ACCOUNTING

Tuesday, June 13, 1899—1.15 to 5.15 p. m., only

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1 The Great northern manufacturing company was incorporated under the laws of the state of New Jersey, February 1, 1899, with a capital stock of \$10,000,000, consisting of \$4,500,000 (45,000 shares of \$100 each) preferred 7% non-cumulative stock, and \$5,500,000 (55,000 shares of \$100 each) of common stock. On the same date \$2,000 of the common stock was subscribed for at par as follows.

| | |
|--------------------------------|----------------|
| By John Smith, 2 shares | \$200 |
| " Henry Brown, 4 shares | 400 |
| " John Doe, 4 shares | 400 |
| " Henry Rodman, 3 shares | 300 |
| " Wm. Rodman, 7 shares | 700 |
| Total | <u>\$2,000</u> |

On February 4, 1899, these subscribers paid in to the company the amount of their subscriptions, and stock was issued to them. February 15, the balance of the authorized capital stock of the company, both preferred and common, was issued by resolution of the board of directors, to John M. Scott, for and in consideration of \$750,000 in cash and 12 manufacturing plants. An inventory of the property purchased, made by authorized representatives of the company, resulted in the following appraised valuations on the various plants and the stocks on hand:

| FACTORIES | Materials and supplies | Merchan- dise | Real estate | Buildings | Tools, machinery, etc. |
|--------------|---------------------------|------------------|-------------|-----------|------------------------------|
| A..... | \$430,000 | \$95,000 | \$195,000 | \$20,000 | \$98,000 |
| B..... | 211,000 | 44,000 | 130,000 | 10,000 | 84,000 |
| C..... | 495,000 | 38,500 | 475,000 | 11,000 | 62,000 |
| D..... | 304,000 | 15,000 | 924,000 | 13,000 | 48,000 |
| E..... | 171,000 | 32,750 | 184,000 | 14,500 | 89,000 |
| F..... | 86,500 | 81,000 | 60,000 | 17,750 | 26,000 |
| G..... | 47,250 | 44,000 | 30,000 | 32,500 | 34,000 |
| H..... | 98,000 | 35,750 | 20,000 | 14,600 | 62,000 |
| I..... | 101,250 | 11,000 | 10,000 | 17,200 | 11,000 |
| J..... | 37,000 | 13,000 | 11,000 | 19,200 | 35,000 |
| K..... | 346,000 | 49,000 | 14,000 | 75,000 | 71,000 |
| L..... | 121,000 | 67,000 | 37,000 | 34,750 | 44,000 |
| Totals | \$2,448,000 | \$526,000 | \$2,090,000 | \$279,500 | \$664,000 |

Open the accounts of the company so that the result of the operation of each factory will be known at the end of the company's fiscal year. The books of the company are not to show the appraised valuation placed on the real estate, buildings, tools, machinery, etc., by factories, but in one amount only; and it is desired that the account include any expenditure incurred by the company for good-will, etc.

Make opening entries in cash-book, journal and ledger, covering in full the above transactions.

2 The trial balance of a corporation shows Dec. 31, 1898, a credit to capital stock account of \$74,176. The authorized capital of the company is \$150,000. There is \$50,000 stock in the treasury of the company. These figures in the trial balance were occasioned by the fact that the bookkeeper, not understanding corporation bookkeeping, had charged the capital stock account with losses as follows: For year 1894, \$13,884.50; 1895, \$9,897.50; 1896, \$32,507.50; and credited it with gains as follows: 1897, \$4,319.15; 1898, \$26,146.35. Make the necessary entries to adjust the books so as to show the true condition Dec. 31, 1898, and give a clear and concise explanation.

3 A and B buy merchandise to the amount of \$4,000, A contributing \$2,500 and B \$1,500. They sell to C a $\frac{1}{3}$ interest in the business for \$2,000. How much of the \$2,000 will A and B receive, respectively, in order to make A, B and C equally interested? -

4 From the following trial balance Dec. 31, 1897, of the Blank pottery company, prepare manufacturing and profit and loss accounts and balance sheet:

| BLANK POTTERY COMPANY | | DR. | CR. |
|-----------------------------------|------------------|--------|------------------|
| Capital..... | | | \$44,000 |
| Real estate and buildings..... | \$10,000 | | |
| Machinery..... | 12,500 | | |
| Tools, etc..... | 2,500 | | |
| Horses, carts, etc..... | 1,500 | | |
| Inventory Jan. 1, 1897: | | | |
| Earthenware..... | \$5,000 | | |
| Crates and packing materials..... | 1,250 | | |
| Clay..... | 5,000 | | |
| Coal and sundries..... | 1,250 | 12,500 | |
| Profit and loss account..... | | | 1,000 |
| Sundry debtors..... | 15,000 | | |
| Sundry creditors..... | | | 5,000 |
| Sales..... | | | 60,000 |
| Packing, etc..... | | | 5,000 |
| Straw, crates, etc..... | 3,000 | | |
| Coal..... | 1,500 | | |
| Clay..... | 12,500 | | |
| Wages..... | 32,500 | | |
| Horse and cart expense..... | 1,500 | | |
| Freight, etc..... | 2,500 | | |
| Repairs to machinery..... | 750 | | |
| Repairs to tools..... | 250 | | |
| Repairs to buildings..... | 500 | | |
| Taxes..... | 250 | | |
| Gas and water..... | 250 | | |
| Bills payable..... | | | 4,000 |
| Bills receivable..... | 6,000 | | |
| Petty expenses..... | 1,000 | | |
| Cash..... | 2,250 | | |
| Petty cash..... | 250 | | |
| | <u>\$119,000</u> | | <u>\$119,000</u> |

Inventory, Dec. 31, 1897: earthenware \$4,000; crates, etc. \$1,000; clay \$4,000; coal \$1,000.

Write off for depreciation, on machinery 5%; on real estate and buildings 2½%; on tools 5%. Allow for bad debts 5% off debtors.

5 State the price at which the following bonds must be purchased, so as to net the purchaser 5% on the investment for the first five years, 4% on the investment for the second five years, and 3% on the investment for the last five years:

| | | | | | |
|--|---|--------|---|----|----|
| Bonds for \$10,000 maturing in 8 years, earning 4% | | | | | |
| " | " | 10,000 | " | 12 | " |
| " | " | 10,000 | " | 15 | " |
| | | | | | 3% |
| | | | | | 2% |

Show the realization account on the basis of purchase price.

6 The trial balance of the books of Brown & Jones, Dec. 31, 1898, was as follows:

| | DR. | CR. |
|--|---------------------|---------------------|
| Wm. Brown, capital | | \$54,500 00 |
| John Jones, capital | | 37,200 00 |
| Bills payable | | 10,000 00 |
| Accounts payable | | 7,471 11 |
| Merchandise | \$120,439 20 | |
| Discount on sales | 6,480 70 | |
| Sales account (net) | | 127,117 33 |
| Rent | 1,200 00 | |
| Store expenses, including salaries | 5,743 82 | |
| Cash at bankers | 19,775 75 | |
| " in office | 73 10 | |
| Furniture and fixtures | 7,540 81 | |
| Bills receivable (good) | 16,657 27 | |
| Legal expenses | 175 00 | |
| Sundry accounts receivable (customers, good) | 38,968 54 | |
| " " (customers, doubtful) | 5,285 25 | |
| Wm. Brown (drawings) | 3,500 00 | |
| John Jones (drawings) | 2,500 00 | |
| Investment bonds and mortgages | 15,000 00 | |
| Interest on " " | | 750 00 |
| Interest account (general) | | 1,543 78 |
| Reserve account (for bad and doubtful debts) | | 4,757 22 |
| | <u>\$243,339 44</u> | <u>\$243,339 44</u> |

Goods on hand Dec. 31, 1898 (at cost) \$52,315.67. Sundry expense bills unpaid, \$115.20. Charge off 10% depreciation on furniture and fixtures. Charge partners drawing account 5% interest per year. Credit capital account with 5%. Provide sufficient reserve for bad and doubtful debts. Prepare merchandise account, profit and loss statement, assets and liabilities account and partners' account for year ending Dec. 31, 1898. Brown is entitled to $\frac{1}{3}$ of profit. Jones is entitled to $\frac{2}{3}$ of profit.

College Department

5TH ACCOUNTANT EXAMINATION

AUDITING

Wednesday, December 14, 1898—9.15 a. m. to 12.15 p. m., only

'The regents of the University shall make rules for the examination of persons applying for certificates under this act, and may appoint a board of three examiners for the purpose

Laws of 1896, ch. 312, § 2

Answer questions 1, 4, 6, 13, 15 and five of the others but no more. If more than five of the others are answered only the first five answers will be considered. Each complete answer will receive 10 credits. Do not repeat questions but write answers only, designating by number as in question paper. Check the number (✓) of each one of the questions you have answered. Papers entitled to 75 or more credits will be accepted.

1 What is an *auditor*? What qualifications must he possess? What are the objects to be attained by an audit?

2 State briefly the duties of an auditor of a corporation.

3 What is the significance of an auditor's certificate of profits of a business about to be sold to a new company? To what extent is an auditor responsible, morally and legally, for his certificates?

4 State what an auditor should do to ascertain if the following assets, appearing in a balance sheet, are taken at a fair value: (a) merchandise, (b) machinery, (c) real estate.

5 State what means should be employed to ascertain if the following assets were properly included in a balance sheet at the valuation given: (a) stocks and bonds, (b) bills receivable, (c) accounts receivable.

6 What measures should be taken by an auditor to satisfy himself that all liabilities had been brought into the books and balance sheet of a manufacturing business?

7 How may an auditor know that credits for merchandise returned are *bona fide*, and not made to conceal a shortage in cash?

8 What classes of salaries and wages should be charged directly against the cost of manufacture? Give reasons.

9 How should the right to remuneration claimed by officers and directors of a corporation be verified?

10 How should the bank balance appearing in the books of a company be verified by the auditor?

11 To what should the discount on bonds sold for construction and the expense of disposing of such bonds be charged? Give reasons.

12 Under what circumstances should paid checks be treated as vouchers? Are checks proper and sufficient vouchers for purchases? Give reasons.

13 What books of a corporation, in addition to the ordinary trade books, should be inspected by the auditor? Why?

14 In auditing the books of a company for the first time after a reorganization, what should an auditor do to verify the opening entries? Give reasons.

15 How may the auditor ascertain the profits for a given period, from the books of a company kept on a system of single entry?

College Department

6TH ACCOUNTANT EXAMINATION

AUDITING

Wednesday, June 14, 1899—9.15 a. m. to 12.15 p. m., only

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Laws of 1896, ch. 312, § 2

Answer 10 questions but no more. Answers in excess of the number required will not be considered. Do not repeat questions but write answers only, designating by number as in question paper. Check the number (✓) of each one of the questions you have answered. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

- 1 Define *audit*, *auditor*.
- 2 Is it the duty of an auditor of a bank actually to inspect the securities representing the bank's investments? If so, what course should be adopted in conducting such examination?
- 3 In the event of such a difference of opinion between auditor and directors concerning the rate of depreciation on plant and machinery as would involve an important alteration in the proposed rate of dividend, how can the matter be settled to the satisfaction of both parties?
- 4 Is it a part of the duties of the auditor of the accounts of a stock company to consider the question of depreciation on assets, such as buildings, machinery, plant, etc.? Give reasons for your answer.
- 5 In examining cash vouchers in the course of an audit, is it necessary to place your initials or some other distinctive mark on each, and if so, why?
- 6 If the cash in hand of a firm or company under audit consists in part of checks received from customers but not deposited in bank, how may the auditor assure himself that such checks are properly included?
- 7 Show how the bank transactions of a partnership or company under audit may be utilized in verifying the cash-book.
- 8 What is the value of a bank pass-book for the purposes of an audit? To what extent should it be taken as a voucher for cash-book entries, or for the balance carried forward?

9 Is there any satisfactory method of auditing accounts not kept by double entry? If so, illustrate the method.

10 In auditing the accounts of a private firm where there are several partners, to what points should the auditor look in order to be assured that the partners' accounts are correctly stated in the balance sheet?

11 What evidence should an auditor require as to the existence of assets (other than book debts) appearing in a balance sheet, and as to the correctness of the amounts as entered in the books?

12 State generally your views as to what constitutes capital expenditure and expenditure properly chargeable against revenue. Under what circumstances would an auditor be justified in refusing his certificate of audit?

13 An auditor has to audit the accounts of a firm or company which is a large employer of labor, fixed and extra; state (a) what vouchers the auditor should expect to find, and, in the case of the extra labor, how such vouchers should be certified, (b) what course the auditor should recommend his client to adopt to make sure that there were no 'dead men' charged on the fixed lists.

14 What reserves should the auditor expect to find set aside out of income, besides those for bad debts and discounts, in the case of (a) a steamship company, (b) a telegraph company?

15 In what way may an auditor form an opinion as to the value of book debts and outstanding accounts generally?

College Department

5TH ACCOUNTANT EXAMINATION

COMMERCIAL LAW

Wednesday, December 14, 1898—1.15 to 4.15 p. m., only

'The regents of the University shall make rules for the examination of persons applying for certificates under this act, and may appoint a board of three examiners for the purpose . . .

Laws of 1896, ch. 312, § 2

Answer the first five questions and five of the others but no more. If more than five of the others are answered only the first five answers will be considered. Each complete answer will receive 10 credits. Do not repeat questions but write answers only, designating by number as in question paper. Check the number (✓) of each one of the questions you have answered. Papers entitled to 75 or more credits will be accepted.

1 When does a deed conveying real estate take effect? Is there any legal presumption as to the time a deed took effect, and if so, is this presumption subject to rebuttal? Give reasons. Define *escrow*.

2 A in Boston offers by letter a quantity of shoes at a certain price to B in New York. B mails a letter from New York to A in Boston, declining the offer. Three hours later B in New York telegraphs A in Boston as follows: 'Offer accepted. Ship at once.' This telegram is received by A two hours in advance of B's letter of declination. Is there a contract? Explain fully.

3 A indorses B's note in favor of C for \$1000. At the same time he guarantees in writing the payment of a note by B to C for the same amount. Neither note is protested at maturity, and neither is paid by B. C sues A for the amount of the two notes. Can he recover, and if so how much? Give reasons for your answer.

4 What rights and remedies have two equal partners in a business when they are irreconcilably divided as to the management of its affairs?

5 How must the contracts of a corporation be made? Are there any exceptions to the general rule? Explain fully.

6 What is meant by *stoppage in transit*? Give an example showing the proceedings.

7 Explain what is meant by the statement that 'a common carrier is an insurer of goods entrusted to him to be transported to a designated destination'. Are there any qualifications or exceptions to this liability? Give reasons and full explanation.

8 Define *arbitration* and give the general rule by which the proceeding is governed. In what cases is arbitration usually resorted to? Wherein does an arbitration differ from a reference?

9 What is a *broker*? What is meant by the terms *bought note* and *sold note*? Illustrate, and show to what extent such notes are used.

10 What is meant by *ultra vires* in regard to the act of a corporation? Explain, and give an example of such an act.

11 When the capital of a corporation is legally increased, have the old stockholders any preemptive right to purchase the new stock? Give reasons.

12 What is a *receiver*? What is his first duty on taking possession of property or trust funds committed to his care? Give reasons and illustrations. How should he deposit trust funds in a bank? Illustrate.

13 What is meant by the rule *hearsay evidence is excluded*? Illustrate. State the rule as to the admission of books of account as evidence in court. Explain.

14 Where in New York must a corporation file the annual report required by law? What must this report contain? What remedy has a director when the annual report, despite his protest, has not been filed? What is the penalty for failure to file an annual report?

15 A policy of insurance contains a clause exempting the company from liability if the insured premises remain idle or vacant 20 days without the permission of the company indorsed in writing on the policy. A policy holder applies to the agent who issued the policy for such permission, and the agent gives permission orally, saying that the written consent of the company is not necessary. The insured building burns. The owner sues the company. In whose favor should judgment be rendered? Why?

What is the duty of an executor in regard to policies covering property of the testator?

College Department

6TH ACCOUNTANT EXAMINATION

COMMERCIAL LAW

Wednesday, June 14, 1899—1.15 to 4.15 p. m., only

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Laws of 1896, ch. 312, § 2

Answer 10 questions but no more. If more than 10 are answered only the first 10 answers will be considered. Do not repeat questions but write answers only, designating by number as in question paper. Check the number (✓) of each one of the questions you have answered. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 What is an *account stated*? To what extent is it conclusive? Does the mere rendering of an account make it an account stated? On what grounds may an account stated be opened?

2 After how many years is a mutual account between merchants barred? When does the statute of limitations begin to run?

3 A makes a bond and mortgage and afterward transfers the mortgaged property to B. As the mortgage approaches maturity B applies to the holder of the mortgage for an extension of the time of payment. Will the granting of such an extension affect the liability of A on his bond, and if so, in what way?

4 What is a *contract*? On what is a contract founded? State the difference between an express contract and an implied contract. What certain conditions are requisite to the validity of an express contract?

5 How is a pledge of stock usually made? Must the pledgee return to the pledger the identical certificate representing the stock pledged? Has the pledgee the right to sell or repledge the stock?

6 State completely the law in respect to the application of payments made on account, where there are several distinct debts or evidences of debt.

7 Mention several different ways in which a partnership may be dissolved. What effect has a dissolution on the property,

interest in the joint stock, or joint rights of the partners, or on their powers over old debts due to them or by them?

8 By what means and to what extent may a retiring partner terminate his liability for the debts of the partnership so that such liability shall attach to no new obligations? How may he escape from his liabilities for existing obligations?

9 Distinguish between general and special agents. To what extent is the principal bound by the act of his agent? Must third parties, for their own protection, ascertain the agent's authority? Is the authority of a general agent unlimited? To what extent is the authority of an agent affected by usage or custom?

10 In taking the accounts of a firm, state the principles which determine whether a given expense or loss is to be placed to the debit of the firm or to the debit of one or more of the partners separately.

11 State the powers and interests of surviving partners in a business.

12 State the rule of interest applicable where partial payments are made.

13 What property may a corporation receive in payment for its shares of stock?

14 Are stock dividends which represent the accumulated earnings or profits of a corporation, income or capital in this state as between life-tenant and remainder-man? Explain.

15 As between life-tenant and remainder-man, is a dividend declared but not paid during the lifetime of a testator to be treated as capital or income? Give reasons.

College Department

2D BUSINESS EXAMINATION

ADVANCED BOOKKEEPING

Tuesday, June 13, 1899—9.15 a. m. to 12.15 p. m., only

Answer 10 questions but no more. Answers in excess of the number required will not be considered. Division of groups is not allowed. Unless otherwise stated double entry bookkeeping is implied in all questions. Write on paper having no ruling except faint blue lines. Ruling required by the questions must be done neatly and in correct form. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 Into what broad general classes are accounts usually divided? Mention *two* accounts in each class, and *one* account that partakes of the nature of both classes.

2 What is meant by the term *book of original entry*? What special importance attaches to such a book? At what time should original entries be made and what information should they contain?

3 You buy for cash merchandise amounting to \$250, and you sell to Peter Parley a bill of goods amounting to \$175.20 and take in part payment his note at 30 days \$150. Describe fully the entries to be made in each case, under (a) the single entry system, (b) the double entry system.

4 Explain the purpose of the ledger. State *four* special precautions that should be observed in posting, giving reasons.

5 In what book or books would you make the original entry for *each* of the following: goods sold, currency and specie, your promissory note given to a creditor, bank checks received, checks drawn and paid out by you, a demand note received, a sight draft drawn by you on A to pay B, a time draft accepted by you, a bank draft, a post-office order?

6 State, in order, the various steps to be taken in closing the ledger at the end of a year or other fiscal period.

7 What is a *bill-book*? Show the special relations between the bill-book and the ledger.

8 What books, besides those necessary to a similar business when carried on by an individual proprietor, are required for keeping the accounts of a stock corporation? State the particular use of each special book.

9-10 Enter the following transactions, using only cash-book, invoice book and sales book. Provide special columns in cash-book for purchases and sales, and rule each book in proper form. Check (✓) in any book such entries as need not be posted:

May 1. Asa Walker began business with an investment of cash \$2000, merchandise \$1500.

May 5. Bought from L. James for cash, merchandise \$1000.

May 8. Sold Jacob Aster, on account, merchandise \$550.

May 9. Sold David Hope for cash, merchandise \$350.

May 12. Bought of R. Williams, merchandise \$1140 and paid cash on account \$140.

May 13. Jacob Aster paid bill of May 8 in cash.

May 16. Bought of C. Arthur, merchandise \$250, 10% off 10 days, net 30 days.

May 18. Sold J. Smith, merchandise \$400, and received his check in part payment \$200.

May 25. Paid bill of May 16 in cash.

11 Mention the books ordinarily used in a bank of medium grade. Which book is most important, and why?

12-14 Rule a section of a commission sales book, showing Barnes' entries (including itemized charges) as they should appear when the following transaction is closed:

Adams & Co. of Buffalo buy 8000 bushels of wheat, at 75 cents a bushel, which they ship May 5 by canal boat Fleetwing, freight $2\frac{1}{2}$ cents a bushel, to Byron Barnes of New York to be sold for account of shippers. They make a sight draft on Barnes for \$5000, and are to pay him interest thereon. This draft is paid May 8. Wheat arrives in New York May 17. Market price there is 79 cents, and as shippers expect better prices the cargo is sent to store. As weighed from boat, the wheat falls short of amount called for by bill of lading, 900 pounds. The wheat is sold for cash as follows:

May 22, 1000 bu. @ 80 cents

" 27, 3000 " " 82 "

June 5, Balance of cargo " $83\frac{1}{2}$ "

The New York charges against the wheat, besides freight, are storage and weighing 2 cents a bushel, fire insurance \$17.26, and commission $\frac{1}{4}$ of a cent a bushel.

15 Supposing account sales to have been rendered in the transaction stated in questions 12-14, make up Barnes' final statement to Adams & Co., showing the amount of certified check necessary to balance the account.

College Department

2D BUSINESS EXAMINATION

BUSINESS ARITHMETIC

Tuesday, June 13, 1899—1.15 to 4.15 p. m., only

Answer 10 questions but no more. Answers in excess of the number required will not be considered. Give all operations (except mental ones) necessary to find results. Reduce each result to its simplest form and mark it Ans. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 Define *aliquot part, trade discount, premium, percentage, consignment, indorsement, proceeds, dividend, par value, brokerage.*

2 From the sum of the cubes of the following numbers subtract the sum of their squares: 17, 19, 23, 29, 31, 37, 41, 43.

3 Find in liters the capacity of a cylindric oil-tank 3 meters in diameter and 5 meters deep.

4 J. R. Hartwell buys to-day lumber of Smith & Bacon as follows:

24 pieces joist $2' \times 4' \times 12'$ @ \$14 $\$336$ M

40 boards $\frac{1}{8}' \times 12' \times 14'$ @ \$16.50 $\$660$ M

3 timbers $8' \times 6' \times 16'$ @ \$12 $\$36$ M

Make out a receipted bill in proper form.

5 Find the cost, at 15 cents a square yard, of plastering the four walls and ceiling of a room 16 feet by 12 feet, and 10 feet high, making an allowance of one half for 2 doors, each 7 feet by 3 feet, and 3 windows, each 2 feet 8 inches by 5 feet 6 inches.

6 On a note for \$2500 at 5% dated Oct. 25, 1897 the following payments have been made: May 10, 1898, \$50; Sept. 17, 1898, \$800; Jan. 4, 1899, \$475; April 11, 1899, \$600. Find by the United States rule the amount due to-day. (1 year=360 days.)

7 For what sum must a note payable in 90 days be drawn so that when it is discounted at 6% the proceeds may be \$725? (1 year = 360 days.)

8 A merchant sends his agent \$1250.90 to cover the cost of 50 tierces of lard, net weight averaging 368 pounds a tierce, \$25 cartage and agent's commission at $2\frac{1}{4}\%$. What was the price of the lard per pound?

9 A man 36 years of age takes a 10 year endowment policy Oct. 10, 1892, for \$5000 at an annual premium of \$66.29 on

\$1000; he dies May 5, 1899. How much more is his estate worth than it would have been had he put the premiums in a savings bank at 4% interest compounded annually?

10 A dealer buys hardware listed at \$840, getting discounts of $33\frac{1}{3}$, 20, 10 and 5 with 90 days credit, or an additional discount of 2% for cash. How much will he gain by borrowing money at 5% to pay the bill?

11 The net earnings of a corporation whose capital is \$500,000 are \$65,000; the corporation wishes to declare a dividend of earnings, after reserving for depreciation of plant 15% of its estimated value \$200,000. There are 1000 shares of the stock in the treasury of the corporation. Find the amount of dividend payable to a stockholder who owns 30 shares of stock.

12 On May 20, 1899 a speculator deposited with a broker \$6000 as a margin, directing him to buy stocks as follows: 200 shares American tin plate at 40; 200 shares New Jersey central at 112; 200 shares Missouri Pacific at $43\frac{1}{2}$. May 27 the stocks were sold as follows: American tin plate at $35\frac{1}{2}$, New Jersey central at $115\frac{1}{8}$, Missouri Pacific at 41. Find the speculator's loss or gain, brokerage being $\frac{1}{8}$ % and interest 6%.

13 A New York merchant imports from Hamburg 400 pieces of linen at 30 marks a piece; he pays \$45 freight and an ad valorem duty of 35%; exchange on Hamburg is at $94\frac{1}{2}$. At what price must he sell the linen to gain 25%?

14 A and B form a partnership January 1 and agree to share gains and losses in proportion to their average investments. A invests Jan. 1, \$5000; May 20, \$1000; Sept. 10, \$1600; and withdraws July 25, \$1200. B invests Jan. 1, \$3000; Mar. 12, \$2000; and withdraws Oct. 1, \$800. The net profits of the year are \$3600; find each man's share.

15 Find the equated time for the payment of the balance of the following account:

| <i>Dr.</i> | | <i>Cr.</i> | |
|------------|---------------------------|------------|----------------------------|
| 1898 | | 1898 | |
| Apr. 20 | Mdse 4 months... \$518 50 | May 2 | Mdse 90 days..... \$585 60 |
| May 17 | " 30 days..... 475 00 | June 16 | Cash..... 350 00 |
| " 28 | Cash..... 200 00 | Aug. 6 | Mdse 30 days..... 268 47 |
| June 14 | Mdse 60 days..... 318 34 | " 24 | " 60 "..... 192 25 |
| July 6 | Cash..... 175 00 | Sept. 12 | Cash..... 225 00 |

College Department

2D BUSINESS EXAMINATION

COMMERCIAL LAW

Wednesday, June 14, 1899—9.15 a. m. to 12.15 p. m., only

Answer 10 questions but no more. Answers in excess of the number required will not be considered. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 What is meant by *commercial law*? Mention the basis of commercial law and state *two* ways by which commercial law has been modified. Why is a knowledge of commercial law necessary to the business man?

2 Define *contract*. Answer *each* of the following: (a) What are the four essentials of a contract? (b) What does a seal attached to a contract imply? (c) Give an example of a voidable contract.

3 A country buyer offers by telegraph to a city dealer 2000 bushels of oats at a certain price. Dealer telegraphs: 'Will take them, but expect unmixed white oats.' Is there a contract? Give reasons.

4 A, having given a note to B which he wishes to renew at maturity, signs a note in blank and mails it to B, telling him to fill it out to cover principal and accrued interest. B fills out the blank note for double the original sum and sells it for cash to one who knows nothing of the circumstances. What is the extent of A's liability to the holder of the note? Explain.

5 What is a *lien*? Show the difference between a mechanic's lien and a lien on goods sold but not delivered. What is meant by *equitable lien*? Give an example of an equitable lien.

6 Define *interest*, *usury*. State the law applying to usury in New York. Are usury laws beneficial? Explain.

7 At what stage in a sale of merchandise does the right of property vest in the buyer? Give a practical illustration covering a case where buyer and seller do not meet face to face.

8 C of New York sells on three months credit a car-load of goods to D of Omaha, and ships them by rail as directed. Two days later he learns that D is insolvent. Can C protect himself against loss? If so, state proceedings in detail.

9 Draw up articles of agreement by which you enter into unlimited partnership with John Doe in the wholesale dry goods business. Doe puts in \$50,000 capital, you put in \$100,000, and gain or loss is to be shared in proportion to capital. Both give entire time to the business, and neither may withdraw more than 5% of his capital in any one year.

10 Describe the manner of forming a business corporation in the state of New York

11 State briefly the advantages of insurance to (a) the insurer, (b) the insured. Explain the difference between a mutual insurance company and a stock insurance company.

12 Give in substance the phraseology that distinguishes a mortgage of real estate from a deed. What is the function of a mortgage?

13 State in a general way the purpose of the interstate commerce law.

14 A bank teller pays a check bearing the genuine signature of a depositor, but raised to a larger sum than originally drawn for. Who bears the loss? Why? Mention any possible contingency connected with the check as originally drawn that would cause you to modify your answer.

15 Define *five* of the following terms: *bankruptcy, duress, indemnity, legal tender, surety, tort, warranty.*

College Department

2D BUSINESS EXAMINATION

COMMERCIAL GEOGRAPHY AND
HISTORY OF COMMERCE

Thursday, June 15, 1899—1.15 to 4.15 p. m., only

Answer 10 questions but no more. Answers in excess of the number required will not be considered. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 On what basis were the earliest commercial transactions conducted? How were gold and silver first introduced as currency? What was then the ratio between the two metals?

2 Describe by map or otherwise the great body of water around which most of the early commerce of the world centered. Show the location of Tyre and Sidon. What were the chief industries of the Phenicians?

3 What physical features of their country tended to make the Greeks a maritime people? What commercial city of modern France was founded as a Greek colony? What city founded by the Greeks in Asia Minor is still a flourishing center of trade? What European city on the Bosporous was originally a Greek colony?

4 How did the breaking up of the Roman empire by the barbarians affect commerce? Give reasons.

5 Mention *three* cities by which in Europe, commerce with the east in the dark ages was exclusively carried on. What *three* things then constituted the only exports of Europe?

6 Describe the guilds organized in the middle ages, and show their purpose. Mention the two classes of guilds that were commercially important. What modern organization did these guilds resemble?

7 Show the influence of feudalism on trade, as to (a) early industrial effects, (b) later effects illustrated by facts in the history of Milan.

8 Describe the Hanseatic league on the following outline: (a) reasons for organizing, (b) ultimate object, (c) power attained, (d) principal factories established, (e) meaning of *factory* as used in this connection.

9 Describe briefly the European system of colonization in the 16th, 17th and 18th centuries, and show what theory in this system caused its failure. Illustrate by facts in the commercial history of Portugal, Spain and England.

10 Describe the industrial revolution that grew out of the inventions of Watt, Hargreaves, Arkwright and Crompton.

11 Mention (*a*) the leading export and the leading import of the United States, (*b*) *three* countries that are habitual importers of breadstuffs, (*c*) the *two* countries (in order of importance) that lead in exports of breadstuffs.

12 What geographic conditions have largely contributed toward making New York the chief gateway for the commerce of the west? Explain.

13 Describe *four* different routes by which the products of Iowa and Nebraska may reach the seaboard. Which route is most desirable for the shipper? Give reasons.

14 Answer *two* of the following:

a Mention in order of importance the *five* countries with which the United States carries on the most extensive commerce, and state in what respects, if any, our commercial system and facilities are inferior to those of any of these countries.

b In what products has Germany recently discriminated against us, and for what reason? Has any other country so discriminated?

c Is commercial success in our country likely to be maintained as easily in the future as in the past? Give reasons.

15 Write an essay of at least 100 words on the commercial effects of our war with Spain.

College Department

2D BUSINESS EXAMINATION

BUSINESS PRACTICE AND OFFICE METHODS

Wednesday, June 14, 1899—1.15 to 4.15 p. m., only

Answer 10 questions but no more. Answers in excess of the number required will not be considered. Credits will be given for penmanship, good arrangement and general appearance of answer papers. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

- 1 Describe the invoice register and state its uses.
- 2 In buying and selling flour, grain, produce and other bulky commodities, known to vary materially in quality and value, how is it determined, as between buyer and seller, what the standard of quality shall be? Explain fully.
- 3 Show how in the sale of commodities too bulky to pass from hand to hand you would give possession to the buyer. Give *three* different illustrations.
- 4 By what unit of measure or weight and in what packages (if any) is *each* of the following usually sold on a commercial scale: grain, lard, pork, hides, lumber, building stone, salt, coal, fruits, fire-wood?
- 5 Describe in a general way the method of conducting business among members of a produce exchange. How are differences regarding price or other elements in a transaction between members usually settled?
- 6 Make out an account sales of a car-load of apples received by you for sale on commission. To whose order should the negotiable paper remitted for net proceeds be made, in case you send your check? in case you send New York draft? Why?
- 7 In what important particulars do the following differ: (a) a bill of lading for property shipped on the great lakes, (b) a bill of lading for property shipped by Erie canal, (c) a railway receipt for property shipped, (d) an express receipt for property shipped?
- 8 What are the duties of the paying teller in a bank? Mention *five* precautions to be observed by bank tellers.
- 9 What is meant by 'gambling in grain' and 'gambling in stocks'? Under what circumstances may a sale of grain for

future delivery be as legitimate as any other business transaction?

10 For what purpose are subordinate ledgers kept? How are the subordinate ledgers treated in the general ledger?

11 What is an *inventory*? Give *two* examples of resource inventory and *one* of liability inventory. How is merchandise usually valued for the purposes of inventory? Mention *two* exceptions to this rule.

12 What is an *account current*? How often should such accounts be rendered? Make out an account current covering a previous balance and at least *three* other items.

13 Write in proper form *each* of the following papers: a warehouse receipt, a draft at 60 days date, duly accepted by the drawee, a charge slip for goods sold.

14 What is a *New York draft*? Would you accept from a stranger a New York draft tendered in payment for goods sold for immediate delivery to him? Give reasons for your answer.

15 Show the value of intercommunication work among business schools. Give *three* illustrations.

BUSINESS ENGLISH

Thursday, June 15, 1899—9.15 a. m. to 12.15 p. m., only

Answer 10 questions but no more. Answers in excess of the number required will not be considered. Division of groups is not allowed. Every letter is to be formally addressed to some person or firm and to be formally signed by the writer. All answers will be rated as to penmanship, spelling, punctuation, capitalization and general neatness, and also as to correct use of words, sentence structure, logical sequence of ideas and paragraphing. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 Write a letter for Adams & Co., Buffalo, to Byron Barnes, 12 Bridge st., New York, advising him of consignment of 8000 bushels of wheat by boat Fleetwing, and giving instructions as to sale of the wheat. State quality of wheat, and say that you draw at sight for \$5000.

2 Order from Economy hardware co., Pittsburg, 2 gross union knobs, 3 gross 4×4 butts, 2 doz. bronze hinges (C421), $\frac{1}{2}$ gross coat and hat hooks (B1), 10 kegs 8d and 15 kegs 10d wire nails. Give shipping instructions. Ask more liberal terms. Complain of delay in last shipment.

3 Write to an intimate friend who is earning a good salary and has recently married, setting forth the advantages of life insurance. Recommend some particular form of policy, giving reasons.

4 State in a letter to C. N. Dark, Cloudville, Ind., the advantages of your new system of electric lighting. Cover the following points: facilities for electric manufacturing; quality of light; cheapness and enduring character of apparatus; places for which this light is peculiarly adapted; testimonials in pamphlet sent. Offer to furnish estimates by mail, or to send a representative to give full information.

5-6 Draw in proper form articles of agreement covering the following conditions:

James Shepard owns a vacant store that has rented for \$1200 a year. David Moore's shoe store has burned. Most of the stock, costing \$3250, was saved, but part of it is damaged. The two men agree to form a partnership in the shoe business. Shepard puts in rent of store against Moore's expert knowledge, and is to contribute cash capital equal in value to Moore's stock. Value of stock is to be determined by three appraisers, one chosen by each partner, and the third to be selected by the men chosen by the partners. The firm name will be Shepard & Moore. Partners are to have equal interests. Shepard is to take charge of the books and finances and Moore is to manage the practical part of the business, both devoting their entire time to the business.

7 Report, as broker, to a customer, Otto Rich of Albany, the condition of the New York stock market, and give your views as to the near future of the market.

8 Write an urgent letter to Sloman & Co., Debitville, Mich., to accompany account current showing a balance of \$225.40 that is several months overdue. Demand immediate payment. Use courteous but plain language.

9 Write the description necessary to form a part of a fire insurance policy covering the household furniture and other effects in the house in which you live. Assume that among the other things are a rented piano, and some valuable pictures belonging to friends of the family.

10 You are a wholesale merchant in New York and have confidential relations with Horace Manley, a banker in Columbus, O. Morgan & Wescott, a new firm in Columbus, have asked to open a credit account with you. Write Mr Manley for such information as you think needful.

11 You are junior partner in the firm of Lively & Co., retailers in general dry goods, notions and fancy goods. You have just received a new stock comprising some novelties never before shown in your town. Write an advertising notice informing the public of these facts.

12 You visit Duluth and find an opportunity to buy some very desirable real estate on the principal business street at a price that will insure large profit. The agent has agreed to hold it open for you for 36 hours. You want your partner's assent to a joint investment of \$12,000 in this property. His address is J. F. Mills, 30 Broadway, New York. Write a telegram of not more than 10 words that will give him all information needful for the purpose.

13 Write a letter of application in reply to the following advertisement, stating your age, education, experience (if any) and general fitness for the place. State what references you can give:

WANTED: A bookkeeper to keep the accounts and assist in the correspondence of a mercantile business. Address, stating qualifications and giving references, 'Business,' Herald office.

14 Write a reply to the letter called for in question 10.

15 Write an essay of at least 100 words on the advantages of a thorough business education.

College Department

2D BUSINESS EXAMINATION

TYPEWRITING

Thursday, June 15, 1899—1.15 to 4.15 p. m., only

Answer questions 1-2, 3-4, 5-6 and four of the others but no more. Answers in excess of the number required will not be considered. Division of groups is not allowed. All answers except to questions 5-6 must be typewritten. Credits depend on neatness and accuracy. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1-2 Write on a typewriter the selection dictated as the first test [150 words to be dictated in three minutes, the work to be then collected by the examiner].

3-4 Copy on a typewriter the selection assigned as the second test [105 words to be copied in three minutes, the copy to be then collected by the examiner].

5-6 Rewrite the following in longhand, making all necessary corrections, and putting the ideas into good clear English:

A letter that is worth writeing unquestionably is worth writeing carfully, a slovenly letter is indictive a slovenly man and ther is surely no complement but rather distrespec in sending sutch a letter to Ones Freinds—Do not be afrade to write and rewrite until a centens is as perfec, nearly as posable it can be made. from this practis you aquir skill in composishion—promnent Literry men and Women do not alow thare composishions to appeer in Print till the hav been reritten corected every posably way. It is related that Chas darwen ust to make First a rough copy; to have then made a fare copy and correkted in Pencil reconsidderd and written in ink, an then even he was glad to have sugestions or corecshuns from Others.

7 What should be done by the operator to keep the typewriter always in good working order? Explain in detail.

8 Describe *two* different methods of making and indexing copies of outgoing business letters. State which method you prefer, giving reasons.

9-10 You are confidential clerk and stenographer to the firm of Hepworth & Ash. Ash is in Europe and the head of the firm has left in a hurry to catch a train. Ten minutes after his departure, a telegraph messenger brings you the following scrawled on a crumpled envelope: "Jones dft prtestd Wire Ketchum attach quick. Ask Jns wire what's mater. Write him quietng letr rst mal."

The firm deals with three different men named Jones. Ketchum is known to you as the firm's New York city lawyer. Write the communications as instructed.

11 Describe *two* systems of preserving for convenient reference business letters and telegrams received.

12 Describe in detail the manner of using some convenient apparatus for making numerous copies of a typewritten document.

13 Describe a method of briefing bills and similar papers, and a plan for filing them for convenient reference.

14-15 Write in proper form *each* of the following: (a) an order on Erie elevator to deliver 8000 bushels of wheat to boat Fleetwing, (b) a bill for storage at $1\frac{1}{4}$ cents a bushel on the wheat mentioned in (a), (c) a receipt for rent of store for month of May, \$50, paid to-day by Peter Carr, (d) a check on Chemical bank, favor of William Miles, \$218.28.

These tests are not to be placed in the hands of the candidates till the work in dictation has been finished and collected by the examiner.

FIRST TEST

150 words to be dictated in three minutes, the work to be then collected by the examiner.

INFLUENCE OF THE BUSINESS MAN

This is distinctly the age of the business man. Never before has he been so influential in every walk of life. Not only does he solve great financial problems and conduct vast commercial enterprises, but in the social, political, religious and educational field he is coming more and more to be the dominant factor. Even the colleges and universities which have for centuries stood at the other extreme from business, now seek for president or chancellor not the traditional clergyman and author of recondite books, but the experienced business man who in turn at the head of these institutions proves the wisdom of the choice by an unexampled record of growth in power and reputation. In churches, social clubs and other non-commercial organizations it is usually the business man who is the most efficient and influential. He founds, manages and endows libraries, hospitals, schools and colleges.

SECOND TEST

105 words to be copied in three minutes, the work to be then collected by the examiner.

JUDICIOUS SELECTIONS

Great care should be exercised in selecting matter for copying or for dictation. No such matter should be given simply because it contains words that can be printed on the typewriter or taken in shorthand. The selection should have further and broader purpose. Even business letters intended for dictation should be scrutinized and if necessary revised, that they may be correct models in style and expression; and as far as possible, all other matter chosen for transcription or dictation should be of a character tending to add to the student's general knowledge and to broaden his mind, while it affords him the required practice.

College Department

47TH LIBRARY EXAMINATION

ELEMENTARY BIBLIOGRAPHY

Tuesday, June 20, 1899—2.30 to 5.30 p. m., only

Answer questions 1-2 and eight of the others but no more. If more than eight of the others are answered only the first eight answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1-2 Describe from the practical standpoint of value to the librarian, any *two* bibliographies from a list to be assigned.

3-5 Describe from the practical standpoint of value to the librarian any *three* bibliographies from a list to be assigned.

6-7 Write such a description of the *Publisher's weekly* as you would give to a person just appointed librarian of a small library and not familiar with trade bibliography.

8 Mention works and classes of works that are useful in selecting annotations for reading lists.

9-10 Give the meaning of the following bibliographic descriptions:

1592, in -8., 8ff. prélim. texte, pp. 5 à 208, et 8ff. pour la table. 4 à 6 fr.

in-fol. goth. de 105ff. non chiffrés, à 2 col. de. 33 lignes, récl. ni signat. avec. fig. en bois.

4 vol. en 8 part. pet. in -8. 120 à 150 fr. et en Gr. Pap. vél. 200 à 250 fr.

gr. 4°. (VIII, 220 S. m. Abbildgn., 17 Taf. u. 3 Fksms.) Magdeburg, Faber. Geb. in Leinw. bar 30 — . Nicht im Handel.

2 verb. u. verm. Aufl. 1 Bd. 3 Lfg. u. 3 Bd. 1 Lfg. gr. 8°. (1 Bd. S. 513-768 u. 3 Bd. S. 1-256.) Strassburg, K. J. Trübner, Verl. à n 4- (I, 1-3 u. III, 1.: n. 16 —).

11-15 Five questions will be assigned to test skill in using bibliographies.

NOTE—Use reference books. Hand in answers with list of all reference books used, in the order used. If you wish to consult a book not in the room, ask the examiner for it.

College Department

46TH LIBRARY EXAMINATION

ADVANCED BIBLIOGRAPHY

Tuesday, March 28, 1899—9.30 a. m. to 12.30 p. m., only

Answer 10 questions but no more. If more than 10 are answered only the first 10 answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 State the qualifications of a good bibliographer. Mention a few prominent bibliographers.

2 Discuss the relative importance of various items of imprint in various types of subject bibliographies.

3 State fully *five* problems suitable for class work in advanced bibliography.

4 Mention the author of a good bibliography of (a) church history, (b) political economy, (c) dictionaries, (d) American poetry, (e) Spanish literature, (f) engineering, (g) printing, (h) 19th century authors, (i) English history, (j) French history.

5 Characterize briefly *five* books useful as bibliographic material on American history.

6 Mention and compare *three* bibliographies of genealogy.

7 Describe the *Index-catalogue of the U. S. Surgeon-general's office* and the *Index medicus*.

8-9 Mention *five* subject bibliographies with which you are familiar, state how and for what purpose you have used them and criticize them from the standpoint of your own use.

Ask examiner for reference books desired for questions 10-15. Hand in a complete list of reference books used in answering these questions.

10-12 Select *five* works on the life and works of Richard Wagner that would be of great value in a public library.

13-15 Select *five* works on present foreign relations of the United States, including the late war with Spain, which would be of great value in a public library.

College Department

47TH LIBRARY EXAMINATION

ACCESSION DEPARTMENT WORK

Thursday, June 22, 1899—2.30 to 5.30 p. m., only

Answer questions 1-2 and eight of the others but no more. If more than eight of the others are answered only the first eight answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1-2 Enter 10 volumes (to be assigned) on condensed accession sheets, using *Library school rules*.

For questions 3-11 write on the back of order slips the titles of reference books used.

3-4 Make out order slips for the following *five* American books:

Conant, C:A., History of modern banks of issue.
Field, L. F., Introduction to the study of the renaissance.
Jonveaux, Emile, Two years in east Africa.
Slater, J:H., Romance of book-collecting.
Symington, A. J., William Wordsworth.

5-6 Make out order slips for the following *five* English books:

Bearne, Catherine, Lives and times of the early Valois queens.
Curzon, G. N., Persia and the Persian question.
Keene, H. G., Fall of the Mogul empire.
Musters, G. C., At home with the Patagonians.
Stoughton, J., Footsteps of the Italian reformers.

7-8 Make out order slips for the following *five* French books:

Badts de Cugnac, Albert de, La civilisation et les jésuites.
Charbonnet, Paul, Histoire de l' Europe et particulièrement de la France, 1589-1789.

Gillard, J., Saint Joseph, sa vie, son culte.

Michel, Ernest, Voyage autour du monde à travers l' hémisphère sud.

Magnin, Charles, Causeries et méditations historiques et littéraires.

9-10 Make out order slips for the following *five* German books:

Ratzel, Frdr., Politische Geographie.
Denthoven, Ludw., Christoph Columbus.

Grell, Ed., Aufsätze und Gutachten über Musik.

Quarck, Max., Die nächsten Aufgaben e. deutschen Arbeiterschutzes-Reform.

Spyri, Johanna, Einer vom Hause Lesa.

11 Make out order slips for the following *two* books:

Fant, C. G., Det vigtigaste af läran om jorden.

Traverso, G. B., L'antimonio.

12-13 With the order routine of the New York state library in hand give a reason for each step in the process.

14 Fill out an auction blank for *two* books (to be marked on auction catalogue), looking up price in reference books and bidding 10% less than $\frac{1}{4}$ off.

15 Describe the process of buying books at auction.

College Department

46TH LIBRARY EXAMINATION

SHELF DEPARTMENT WORK

Thursday, March 30, 1899—2.30 to 5.30 p. m., only

Library school shelf list rules, Cutter's Author tables, Shakspeare scheme and Time number scheme may be used in the examination.

Answer questions 1-5 and five of the others but no more. If more than five of the others are answered only the first five answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1-2 Assign 20 book numbers according to the rules of the New York state library, class numbers, authors and titles being given.

3-5 Make 20 shelf list entries (the necessary facts being assigned), using 10x25 cm shelf sheets.

6 Shelf list one set of periodicals (the necessary facts being assigned), using 20x25 cm shelf sheets.

7-8 Given a public library of 30,000 volumes with 60% of fiction, a printed catalogue and a 1, 2, 3 book number, is it worth while to change to a Cutter book number? Give full reasons for your answer.

9 What do you consider the most convenient form of shelf list in a rapidly growing public library? in a small town library? Give reasons for your answer.

10 Give a good working plan for taking an inventory.

11-12 According to the usage of the New York state library mention all the places in which the call number of a book appears, giving reasons for its use in each place.

13 Describe several varieties of book labels, giving relative price and convenience.

14 Describe *two* good forms of book support, giving relative price and advantages.

15 Describe the use of dummies.

ELEMENTARY CATALOGUING

Saturday, December 17, 1898—9.30 a. m. to 12.30 p. m., only

Answer questions 1-2 and eight of the others but no more. If more than eight of the others are answered only the first eight answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1-2 Discuss (about 50 words) pseudonymous books in respect to the various peculiarities that bear on the proper rule for entering them in the catalogue.

3 Copy a card (to be assigned) in both joined and disjoined hand.

4 Abbreviate a title page (to be assigned) to the proper length for a subject card.

5 Using specific cases, real or imaginary, indicate the form of the following cards: (a) general secondary card, (b) subject reference card, (c) reference card in name catalogue.

6 Capitalize properly the following words: (a) Alfred the great, (b) catholic, (c) christian, (d) white mountains, (e) board of trade, (f) i and ich, (g) december, (h) avril, (i) homerische frage, (j) holy bible.

7 What cards should be made for (a) an anonymous biography, (b) a collected biography with two joint authors? Where should the cards be placed and how should they be arranged? Illustrate by specific works.

8-9 Give exact form of main entry, added entry and references, if necessary, for the following:

a John Henry Winchester, James Cable and Henry E. Estabrook (joint authors).

b Benjamin Disraeli, 1st earl of Beaconsfield.

c Mrs Mary Ann Evans Lewes Cross.

d Pension office, a bureau of the department of the interior.

e Osterhout library, Wilkesbarre, Penn.

10 Give the rule for entry of (a) married women, (b) popes, (c) bishops, (d) surnames beginning with a prefix, (e) compound names.

11 What is meant by *subject fulness*, *author fulness*? Mention several cases where each form is used, giving reasons for its use in each case.

12-13 State fully the rules for cataloguing periodicals.

14-15 Describe fully all cards made for bibliography.

College Department

47TH LIBRARY EXAMINATION

ELEMENTARY CATALOGUING

Wednesday, June 21, 1899 — 2.30 to 5.30 p. m., only

Answer questions 1-3 and seven of the others but no more. If more than seven of the others are answered only the first seven answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

Library school rules, Decimal classification and special book number schemes may be used in the examination.

1-2 Catalogue Southey's *Life of Nelson* as for the New York state library. Give call numbers. Reference books but not name list may be used.

For questions 3-15 indicate all entries instead of cataloguing in full; e. g.

Main author card under Smith, Samuel

“ subject “ 875.1

Added entry editor card under Brown, Oliver

Analytic author “ Duffield, Francis

Indicate use of red ink headings and colored cards.

Use of reference books is allowed but full names and dates are not required.

- 3 Penny cyclopaedia, iv.
- 4 Cambridge Bible, iv.
- 5 Sabin, Dictionary, iv.
- 6 Nathan the Wise.
- 7 Catalogue.
- 8 Mortuary record; or, Grave-stone records.
- 9 Les misérables.
- 10 Browning handbook; or, Browning guide-book.
- 11 Times index, iv.
- 12 Animal industry report, iv.
- 13 Hosack, Inaugural discourse; or, Spencer, Address; or, Dean, Phrenology.
- 14-15 Goethe and Carlyle, Correspondence.

ADVANCED CATALOGUING

Wednesday, March 29, 1899—9.30 a. m. to 12.30 p. m., only

Library school card catalogue rules and a German lexicon may be used in the examination.

Answer questions 1-3 and seven of the others but no more. If more than seven of the others are answered only the first seven answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1-3 Indicate the proper entries for *one* book under each of the following groups:

a Martyrology of Donegal; *or*, Lives of Leland, Hearne & Wood.

b The trial of Ravailac; *or*, Reeve's apologies.

4 Revise and rewrite, with special reference to penmanship, *one* card (to be assigned).

5 Translate into English (using a dictionary if desired) titles (to be assigned).

6 Outline the history of the cataloguing rules of the American library association and of the Library association of the United Kingdom.

7 What have you learned from your comparative study of the cataloguing of anonymous books? Give an argument against first word entry.

8 Make some general comparisons between cataloguing usages in continental libraries and those in American libraries.

9 Mention and characterize *five* works specially useful to cataloguers, not including cataloguing rules, library catalogues, biographic dictionaries or general cyclopedias.

10 Describe critically the form of card catalogue known as the Leyden form.

11 Describe the most approved drawer for a card catalogue, including dimensions, plan for labels and guides and for locking cards.

12-13 Describe the cards printed by the publishing section of the American library association. What arguments would you use to induce the board of trustees of a large public library to subscribe for these cards?

14-15 Reply fully and in detail to the following inquiry in a letter: 'How long will it take and how much will it cost to catalogue our school library of 1500 volumes? We want everything done simply and with strict regard to economy.'

College Department

44TH LIBRARY EXAMINATION

ELEMENTARY DICTIONARY CATALOGUING

Tuesday, January 31, 1899—9.30 a. m. to 12.30 p. m., only

Answer questions 1, 2 and eight of the others but no more. If more than eight of the others are answered only the first eight answers will be considered. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

The following helps may be used: *Boston Athenæum catalogue*, *Peabody catalogue*, Webster's *Dictionary*, Lippincott's *Gazetteer*, Library School *Subheads under countries and cities*, Library School *Bible scheme*, *Shakspeare scheme*, *A. L. A. subject headings*.

1 How are engravings catalogued? What entries are required for operas, oratorios, and songs set to music?

2 How are special reports to a government department catalogued, when the person making them is not an official of the department?

Give all the entries necessary for *eight* of the following books, specifying the author entry and mentioning also the *See* and *See also* references suggested by the subjects. Do not select two books under the same number.

3 Sears, Literary criticism; *or*, Bunbury, History of ancient geography, 2 v.; *or*, Van Dyke, How to judge a picture.

4 Reynolds, Voyage in frigate 'Potomac'; *or*, Upton, Armies of Asia and Europe; *or*, Oats, Prison life.

5 Barrett, Grammar; *or*, Besant, Fifty years ago; *or*, Parton, Famous Americans.

6 Bibliotheca piscatoria; *or*, Brannet, Metallic alloys; *or*, Cocker, Government of U. S.

7 Brinton, Essays of an Americanist; *or*, Büchner, Man in the past; *or*, Tytler, Musical composers.

8 Houghton, Parliament of religions; *or*, Church of Scotland, Confession of faith; *or*, Rich, Historical discourse.

9 Burgon, Corruption of text; *or*, Clergy directory; *or*, Troy, Charter.

10 Withington, Solomon's song; *or*, Diez, Etymological dictionary of Romance languages; *or*, Burns, Correspondence.

11 Kingman, Epitaphs from Burial Hill; *or*, Report of treasurer of North Carolina; *or*, Fromentin, Old masters.

12 Dugdale, Arms; *or*, Leeds library catalogue; *or*, Iowa state library catalogue.

13 Johnson, The Higleys; *or*, Sidney and Languet, Correspondence; *or*, Allen, Monographs.

14 Evans, Shakespeare's Seven ages; *or*, Morris, British thought; *or*, Poole, Classical collector's vade mecum.

15 Boies, Rural rhymes; *or*, Johnson, War of 1812; *or*, MacKenzie, History of the Frasers.

College Department

45TH LIBRARY EXAMINATION

ADVANCED DICTIONARY CATALOGUING

Thursday, February 16, 1899—9.30 a. m. to 12.30 p. m., only

Answer questions 1, 2, and eight of the others but no more. If more than eight of the others are answered only the first eight answers will be considered. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

The following helps may be used: *Boston Athenæum catalogue*, *Peabody catalogue*, *Webster's Dictionary*, *Lippincott's Gazetteer*, *Library School Subheads under countries and cities*, *Library School Bible scheme*, *Shakspeare scheme*, *A. L. A. subject headings*.

1 Describe the method of cataloguing works on historical subjects.

2 Mention the principal form entries used in a dictionary catalogue; also some which are not used. Give reasons in both cases.

Give all the entries necessary for *eight* of the following books, specifying the author entry and mentioning the *See* and *See also* references suggested by the subjects. Do not select two books under the same number.

3 American academy of political and social science, *Annals*; *Supplement*; *or*, Lee, *Sketch of first 50 years of the Church in New Brunswick*.

4 List of executive officers of Iowa, 1888; *or*, Shourds, *History and genealogy of Fenwick's colony*.

5 Naval professional papers, no. 22; *or*, Duncan, *History of the royal regiment of artillery*, v. 1.

6 Bowes, *Catalogue of Cambridge books*; *or*, Welsh, *Digest of English and American literature*.

7 Fry, *Bibliographical memoranda*; *or*, Hospital transports.

8 Calhoun, *Government*; *or*, Lanslots, *Explanation of the mass*.

9 Report of poor law commissioners; *or*, Plummer, *Gospel according to Luke*.

10 Banks, *Journal*; *or*, Putnam, *First church in Middleborough*.

11 Hoare, *Epochs of the arts*; *or*, Bird, *Guide to public records*.

12 Edinburgh, *Pharmacopoeia*; *or*, Sainte Bible.

13 Reed, *English history and tragic poetry*; *or*, Schouler, *Constitutional studies*.

14 Schaff, *Theological propaedeutic*; *or*, Vaill, *History of the second Connecticut volunteer infantry*.

15 Wall, *Natural history of thought*; *or*, Chassant, *Nobiliana*.

College Department

46TH LIBRARY EXAMINATION

ELEMENTARY CLASSIFICATION

Tuesday, March 28, 1899 — 2.30 to 5.30 p. m., only

The following books may be used as helps: Dewey's *Decimal classification*, Webster's *Dictionary*, Lippincott's *Gazetteer*, Lippincott's *Biographical dictionary*.

Answer questions 12-15 and six of the others but no more. If more than six of the others are answered only the first six answers will be considered. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

Give class numbers for the following subjects, carrying them down as far as possible; also explain the significance of the class numbers, e. g.:

914.21 = travel in London

9 = history

1 = travel

4 = Europe

2 = England

1 = London

1 Bibliography of the official publications of the continental congress. Statistics of deaths in Budapest.

2 Architecture of Constantinople. History of government in Switzerland.

3 The religions of Japan. Flora of the Philippine islands.

4 History of fossil infusoria. History of the quakers in Maryland.

5 Annual report of the Rhode Island board of health. History of the churches in Newfoundland.

6 History of Young Men's Christian association movement in North Carolina. Dictionary of the words of the Greek testament with their renderings in the authorized English version.

7 Medicinal properties of sulphur. Topographical map of Staten Island, N. Y.

8 Life of Pestalozzi. Holy Bible translated into the Burmese from the original tongues.

9 English & Bengalee dictionary. Life of Martin Luther.

10 Bibliography of Trinity church, New York city. Catalogue of works by American naval authors.

11 History of slavery in Cuba. Bibliographical catalogue of Houghton, Mifflin & company's publications.

Assign class numbers, and references if necessary to the following books:

12 Cleveland, Self-made man in American life; *or*, Munger, On the threshold; *or*, Harris, Self-effort.

13 Lincoln, President's words; *or*, Lincoln, Letters; *or*, Our president.

14 Skinner, Nature in a city yard; *or*, Tourgee, An outing with the queen of hearts; *or*, Abbott, Travels in a tree-top.

15 Arber, Story of the pilgrim fathers; *or*, Abbott, Miles Standish; *or*, McManus, Voyage of the Mayflower.

ADVANCED CLASSIFICATION

Thursday, June 22, 1899 — 9.30 a. m. to 12.30 p. m., only

Answer 10 questions but no more. If more than 10 are answered only the first 10 answers will be considered. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

For questions 3-4 the *Belgian classification scheme* may be used; for questions 6-15 the following books may be used: Dewey's *Decimal classification*, Cutter's *Expansive classification*, Webster's *Dictionary*, Lippincott's *Gazetteer*, Lippincott's *Biographical dictionary*.

1 Compare the treatment of religion in the Cutter, Perkins, Smith and Edmands classifications.

2 Summarize and criticize the Cutter classification of language.

Classify the following subjects according to the general principles of the Belgian modifications of the decimal classification as proposed by the Institut international de bibliographie:

3 A Mohammedan university for northern India. Commercial relations of the Americans and French at Canton in the 18th century. Engravings and paintings on the rocks, by the Australian aborigines.

4 Virgil as a magician in the middle ages. The Carolina pirates and colonial commerce. The land mammals of peninsular Florida.

Classify the following books by both the decimal classification and the expansive classification:

5 Case, On the osteology and relationships of *Protostega*; or, Bagg, Cretaceous foraminifera of New Jersey.

6 Kropotkin, Fields, factories and workshops; or, Spiers, Vacant-lot cultivation.

7 Schreiner, The political situation; or, Johnston, History of the colonization of Africa by alien races.

8 Lanier, Music and poetry; or, Austin, Lamia's winter-quarters.

9 Ayres, History of the English Bible; or, Kautzsch, Outline of the history of the literature of the Old Testament.

10 Burke, Conciliation with the American colonies.

11 Hartley, Historical, scientific and practical essay on milk; or, Sanitary care and treatment of children and their diseases.

12 Addison, The Temple church; or, Centennial of the Bulfinch state house.

13 Mackinnon, Culture in early Scotland; or, Ramabai, The high-caste Hindu woman.

14 Walker, The Semitic negative; or, Fowler, The negatives of the Indo-European languages.

15 Kool, Aperçu historique au sujet de la société pour secourir les noyés; or, Otte, Grundzüge der kirchlichen Kunst-archäologie des deutschen Mittelalters.

College Department

47TH LIBRARY EXAMINATION

PRINTING AND LITERARY METHODS

Friday, June 23, 1899—2.30 to 5.30 p. m., only

Answer questions 1-2, 3, 13-15 and four of the others out no more. If more than four of the others are answered only the first four answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1-2 Correct the following proof:

Mr Lincol was as far as possible from animpromptu politician, His wisdo was made np of a knowldgc of things as wel as of mⁿ: his sagacty resulted from a elcar preception and honest acknowledgment of difficuculties. which enabled him to see that the only durable triumph of politlcal of opinion is based, not only any abstract right, but upon so much of justice, the highost attainable at any given moment in humau affairs; as may be had in the balancee of mutual concesion. Doubtles he had an ideal, but it was the idael of a practical statesmen,—to aim at the bcst, and to take the next best, if he is lucky enough to get even that, His slow, but sinularly mas culine intelligence taught him that precedent is onlx auother name fore imbodied experience, and it counts for even more in the guidance cf comunities of man than is that of the individual life. He was not a men who held it gooôd public economy to pul down on the mcre chance of rebuilding better. Mr Lincolns' faith in god was qualified by a very well:founded distrust of thewisdom of man. perhaps it was his want of self-confidence that more than any thing els won him the unlimited confidence of the poeple, for they felt that their would be no ned cf retreet from any posision he had deliberately taken. The cautions, but steady, advance of his pollycy durlng the war was like that of a roman armory. He left behind him a firm rod on which public confidence could follow; he took America with hm where he went; what he gained he ocupied, and his advanced posts became colinies, Th vry homleness of his genuis was its distinction. His kingship was conspicuous by its workday homespun. Næver was ruler so absolute as he, nor so pitle conscious of it; for he was the incarnate common-sense of the people. With all that tenderness of naturæ whose sweet sadness touched whoever saw him mith something of its own

pathos. there was no trace of sentimentalism in his speech or action. He seems to have had but 1 rule of conduct, always that of practical and successful politics, to let himself be guided by events, when they were sure to bring him out where he wished to go; though by what seemed to unpractical minds, which let go the possible to grasp at the desirable, a longer road:

3 In what items would the expense of a given number of copies of a 16-page pamphlet exceed that of an equal number of 12-page pamphlets, terms for presswork being per 100 8-page forms?

4-5 Criticize the editing rules of the University of the State of New York, referring to rules by number and stating your reason in case of disagreement with a rule.

6 Outline the routine from preparation of copy to receipt of finished product that you would adopt for the printing in a library, giving not more than 50 orders a year.

7 What directions would you give for preparing copy? [Paragraph separately and letter each direction or caution.]

8 Would you consider it fair for a printer to charge more for 500 copies of a postcard printed on both sides than for the same number of slips or circulars printed on both sides? Give fully the reasons for your opinion.

9 In what terms would you tell a printer how wide and long to make the printed matter on a page? In what terms does he make his charge for composition? Under what conditions would you electrotypes?

10 What do you understand by (a) fat work, (b) rule and figure work, (c) 40-lb paper, (d) overrunning, (e) making pages register?

11 Explain the principle of standard sizes as it would be likely to be understood by a novice.

12 Mention some library devices and methods that you would recommend to friends outside the library profession.

13-15 Indicate by underlining or writing in the margin the entries you would make for the *Great round world* for March 2, 1899, pages 269-308, if you were preparing an annual index of the periodical. Give such explanations about the meaning of your markings as would enable the person making the slips to understand your intention.

FOUNDING AND GOVERNMENT

Tuesday, June 20, 1899—9.30 a. m. to 12.30 p. m., only

Answer 10 questions but no more. If more than 10 are answered only the first 10 answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1-2 Distinguish between a public library and a free library, and state fully the advantages of each.

3 Mention *five* libraries of each type mentioned in questions 1-2.

4 What objects should be promoted by state associations of librarians? Mention several states having such associations.

5-6 Describe the work of the Home education department of the University of the State of New York.

7-8 Describe the work of the Wisconsin free library commission.

9 Give the **main** features of the constitution of the American library association, including the changes voted on at the Atlanta meeting.

10-11 Discuss the following question: How far should the librarian regard the wishes of the public in the selection of books for an average tax-supported public library?

12 What did you gain from Miss Hewin's lectures before the Library school in 1899?

13 Discuss the question of Sunday opening of libraries.

14 Mention 10 of the most useful and standard works on library economy published in this country.

15 Where would you look to find the following: (a) the address of the secretary of the Colorado library association, (b) a list of the members of the American library association, (c) the size of the Worcester public library, (d) a comparison of rules for libraries, (e) a representative collection of plans and pictures of library buildings, (f) a complete list of library commissions with their officers, (g) a list of books classified by the decimal and the expansive classification?

Mention *one* librarian who is an authority on the subject of library buildings; one who is an authority on children's reading; one who is an authority on the relation of the library to the public school.

College Department

46TH LIBRARY EXAMINATION

LIBRARY BUILDINGS

Thursday, March 30, 1899—9.30 a. m. to 12.30 p. m., only

Answer questions 10-11 and 12-13 and six of the others but no more. If more than six of the others are answered only the first six answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1-2 Sketch the history of library buildings in this country since 1890, mentioning individual buildings and changes of opinion in any line.

3 Give a sketch of conditions as regards library buildings in New York state.

4 Mention points to be considered in selecting the site for a public library building, including both central library and branches.

5 Discuss the relation of access to the shelves to library construction.

6 Mention 10 of the most satisfactory library buildings in the country.

7 Mention 10 library buildings considering simply the architectural standpoint.

8-9 Distinguish the stack system, the alcove system and the room system. Describe *one* building that is a good type of *one* of these systems.

10-11 How many books can be stored in a three story stack in a room 40 ft long and 25 ft wide? Give rules and all figures used in computing the answer.

12-13 Criticize a set of plans (to be assigned).

14 Draw a rough plan of a building suitable for a branch city library. [This may be the plan of a building already erected or an original plan.]

15 Draw a rough plan of a college library building fairly well fitted for its requirements. [This may be the plan of a building already erected or of one for which plans are accepted.]

College Department

46TH LIBRARY EXAMINATION

LOAN DEPARTMENT WORK AND
BOOK-BINDING

Wednesday, March 29, 1899—1.15 to 4.15 p. m., only

Answer questions 11-12, 13, two others on binding and five on loan department work but no more. If more than seven of the others are answered only the first seven answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

LOAN DEPARTMENT WORK

1-2 Describe what seems to you an ideal loan department for a public library. [Include service, loan system without detail and access to shelves.]

3-4 Describe fully and criticize the loan system of the Boston public library.

5 What are the relative advantages of the book record and the time record? What is a fair daily fine for a large public library? for a college library? for a small Y. W. C. A. library?

6-8 Submit a bulletin suitable for exhibition in a loan room of a public library on the Relation of the United States to world politics. [Confine the bulletin to 20 books and articles. Pictures may be used but are not required.]

BOOK-BINDING

9-10 Describe in outline the process of binding a book. [Minute detail is not expected.]

11-12 Describe fully the bindings of 10 books (to be assigned), indicating materials, both sides and back, and any peculiarities of binding.

13 Fill out binding slips for *five* books (to be assigned).

14 Describe fully what is considered the best library binding for books, giving approximate cost.

15 What is considered the best material for binding newspapers? Explain.

HISTORY OF LIBRARIES

Wednesday, June 21, 1899—9.30 a. m. to 12.30 p. m., only

Answer 10 questions but no more. If more than 10 are answered only the first 10 answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 What was the relation of medieval monasteries to books and libraries?

2-3 Give a sketch of the history of printing up to the middle of the 15th century.

4 Give a brief account of Grolier and the Grolier bindings.

5 Mention and distinguish *three* methods of printing illustrations.

6-7 Compare present library conditions in Germany and Great Britain.

8 Mention 10 of the largest libraries in the world, giving approximately the size and importance.

9 Describe the library facilities of some one large city in the United States.

10-11 Give a sketch of the history and present condition of the Boston public library.

12 Give a sketch of library schools and training classes, omitting the New York state library school.

13 Mention points of interest regarding the following libraries: Salem public library, Free library of Philadelphia, Enoch Pratt free library, Carnegie library (Pittsburg), Medford public library.

14-15 Mention and discuss briefly the most important library events of 1898.

College Department

47TH LIBRARY EXAMINATION

READING AND REFERENCE

Friday, June 23, 1899—9.30 a. m. to 12.30 p. m., only

Answer questions 1-2, three others on reading, questions 10-11 and three others on reference but no more. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

READING

1-2 Criticize and estimate (about 600 words each) *either Quo vadis or The workers*; also *Old Virginia or Spear's History of our navy or Colquhoun's China in transformation*.

3 Mention and characterize *five* important biographies first published during the last two years.

4 Compare De Windt's *Through the gold-fields of Alaska to Bering straits*, with Swineford's *Alaska, its history, climate and natural resources*.

5 Give an estimate, based on a 15 minute examination, of a book (to be assigned) of which you have no previous knowledge.

6-7 Write a reader's note, both descriptive and critical, for any *two* of the following books: Bodley's *France*, Ward's *Outlines of sociology*, Thompson's *Wild animals I have known*, Brandes' *William Shakespeare*, Sturgis' *European architecture*: [These books may be examined if desired.]

8 Estimate from the standpoint of a librarian (about 50 words each) the work of any *five* of the following publishers: Scribner, Lane, Macmillan, Appleton, Lippincott, Revell, Funk and Wagnalls.

REFERENCE

9 State some underlying principles in the work of the reference department.

10-11 State *two* typical questions to which you would look for answers in *each* of the following: (a) Smith's *Dictionary of Greek and Roman antiquities*, (b) Brandes' *Impressions of Russia*, (c) Stedman's *Victorian poets*, (d) Reddall's *Fact, fancy and fable*, (e) Brewer's *Historic note book*, (f) Heilprin's *Historical reference book*, (g) Scribner's *Statistical atlas of the U. S.*, (h) *Tribune almanac*, (i) *Official register of the U. S.*, (j) *Wood's Dispensatory*.

12 Characterize briefly the following periodicals: *Scientific American*, *Littell's living age*, *Public opinion*, *Catholic world*, *Journal of the Franklin institute*.

13 Compare Poole's *Index* with the *Cumulative index*.

14 How would you reply to a person who asked your advice as to the best English dictionary for family use?

15 Mention the authors of 10 books of quotations.

College Department

47TH LIBRARY EXAMINATION

GENERAL LITERATURE

Tuesday, June 13, 1899—9.15 a. m. to 12.15 p. m., only

Answer 10 questions but no more. If more than 10 are answered only the first 10 answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 Give some of the arguments for and against the unity of the Homeric poems.

2 Give the names of the famous Latin historians, mention the age in which each lived and the epochs treated of in the respective histories

Or

Describe the character of Latin literature to the death of Sulla.

3 Who were the schoolmen? What writer did they regard as their master? Why is Petrarch referred to as the Father of the Humanists?

4 What famous epic was written in (a) Anglo-Saxon, (b) old French, (c) middle high German? Give the approximate date of each composition.

5 Describe briefly the Eddas. Mention a poem founded on Norse mythology by (a) William Morris, (b) Matthew Arnold.

6 What great English poet was contemporary with Dante? What English writer was influenced by Montaigne? What French writer did Pope imitate? With what early English novelist may Cervantes be compared? What famous work of antiquity furnished the plot for Shakspeare's *Antony and Cleopatra*?

7 Mention the play of Shakspeare in which *each* of the following characters appears: (a) Puck, (b) Autolycus, (c) Jessica, (d) Ariel, (e) Petruchio.

8-9 Trace the historical development of American literature by mentioning in chronologic order the writers whose works seem to you of permanent value and by describing the work of each.

10 Mention (a) *four* writers of restoration comedy, (b) *two* celebrated letter writers of the age of Queen Anne. Mention the great writers of religious prose in France and England during the 17th century.

11 What is meant by the *romantic movement in English literature*? What names are associated with this movement?

12-13 Write a criticism (about 800 words) on Burke's *Reflections on the revolution in France*.

Or

Comment on the following statement:

Rousseau was the most directly revolutionary of all the speculative precursors [of the French revolution], and he was the first to apply his mind boldly to those of the social conditions which the revolution is concerned by one solution or another to modify.—Morley, *Rousseau*, v. 1, p. 2-3

14-15 Write a criticism (about 800 words) on Kipling's poetry.

Or

Argue for or against the following opinion:

Mr Kipling is the greatest literary force of his day, and his very limitations, his prejudices, and self-complacence, and lack of sensibility, strengthen his hand and help him to hold and rule.—*Nation*, Dec. 8, 1898

College Department

47TH LIBRARY EXAMINATION

GENERAL INFORMATION

Wednesday, June 14, 1899—9.15 a. m. to 12.15 p. m., only

Answer questions 1-2 and eight of the others but no more. If more than eight of the others are answered only the first eight answers will be considered. Division of groups is not allowed. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1-2 Outline (about 800 words) the history of the recent war between the United States and Spain.

3 Mention several books or magazine articles on our recent war with Spain, or discuss briefly any book or magazine article on our recent war with Spain.

4-5 Discuss (about 800 words) the czar's proposal for disarmament.

6-7 Discuss (about 800 words) the policy of the United States regarding expansion.

8 Outline the important events of the past year relating to education.

9 Mention the important inventions or discoveries of the past year.

10 Characterize briefly (about *three* lines each) the following: Harold Frederic, Col. George E. Waring, David A. Wells, Emile Erckmann, President Faure, Henry Bessemer, John Russell Young, Edward Bellamy, Anton Seidl, Frances Willard.

11 Mention 10 of the most important events of the past year not given in answering any other question.

12-13 Give such an explanation of the relations of national, state and municipal government in the United States as would be of service to an intelligent foreigner.

14 Give the substance of the 15th amendment to the constitution of the United States.

15 Mention 10 living lecturers who exert a strong influence on national life, stating the line of the influence exerted.

College Department

47TH LIBRARY EXAMINATION

GENERAL HISTORY

Thursday, June 15, 1899—9.15 a. m. to 12.15 p. m., only

Answer 10 questions but no more. If more than 10 are answered only the first 10 answers will be considered. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.

1 Mention and briefly describe the civilizations which in pre-Christian times successively occupied the Tigris-Euphrates valley.

2 Tell the story of the growth of the Athenian constitution, to the tyranny of Pisistratus.

3 Recount in order the steps by which the Roman plebeians won political equality.

4 What civil and religious changes in the government of the Roman empire were made by Diocletian and Constantine?

5 Describe the spread of Islam in the century following the death of Mohammed.

6 What causes led to the growth of towns in the 12th and 13th centuries? Mention some of the towns that then rose to greatness.

7 Who was Joan of Arc? Describe the part taken by her in the 100 years' war.

8 When and how did Sweden become protestant?

9 Describe the rise and government of the Dutch republic.

10 When and under what circumstances did England and Scotland unite under one government?

11 Narrate in order the chief events of the French revolution, from the calling of the states-general to the proclamation of the republic.

12 Show the direct and remote effects of the German Zollverein on the history of Europe.

13 Mention and explain the accretions by which the territory of the United States has grown to its present extent.

14 Describe the steps by which in the present century Italy was unified.

15 Account for the victory of the north in the American civil war.

College Department

47TH LIBRARY EXAMINATION

GERMAN—First Year

Tuesday, June 13, 1899—1.15 to 4.15 p. m., only

Credits will be given for neatness, good arrangement and general appearance of answer papers. Papers entitled to 75 or more credits will be accepted.

Translate into English:

a

DIE ELFEN

“Wo ist denn die Marie, unser Kind?” fragte der Vater. “Sie spielt draussen auf dem grünen Platze,” antwortete die Mutter. “mit dem Sohne unsers Nachbars.”—“Dafs sie sich nur nicht verlaufen,” sagte der Vater besorgt; “sie sind unbesonnen.”

Die Mutter sah nach den Kleinen und brachte ihnen ihr Vesperbrot. “Es ist heifs,” sagte der Bursche; und das kleine Mädchen langte begierig nach den Kirschen. “Seid nur vorsichtig, Kinder,” sprach die Mutter; “lauft nicht zu weit vom Hause, oder in den Wald hinein; ich und der Vater gehen aufs Feld hinaus.” Der junge Andres antwortete: “O, seid ohne Sorge, denn vor dem Walde fürchten wir uns; wir bleiben hier beim Hause sitzen, wo Menschen in der Nähe sind.”

Die Mutter ging und kam bald mit dem Vater wieder heraus. Sie verschlossen ihre Wohnung und wandten sich nach dem Felde, um nach den Knechten und zugleich auf der Wiese nach der Heuernte zu sehn. Ihr Haus lag auf einer kleinen grünen Anhöhe, von einem zierlichen Stakete umgeben, welches auch ihren Frucht- und Blumengarten umschlofs; das Dorf zog sich etwas tiefer hinunter, und jenseits erhob sich das gräfliche Schlofs. Martin hatte von der Herrschaft das grofse Gut gepachtet und lebte mit seiner Frau und seinem einzigen Kinde vergnügt; denn er legte jährlich zurück und hatte die Aussicht, durch Thätigkeit ein vermögender Mann zu werden, da der Boden ergiebig war und der Graf ihn nicht drückte.

Indem er mit seiner Frau nach seinen Feldern ging, schaute er fröhlich um sich und sagte: “Wie ist doch diese Gegend hier so ganz anders, Brigitte, als diejenige, in der wir sonst wohnten. Hier ist es so grün, das ganze Dorf prangt von

dichtgedrängten Obstbäumen, der Boden ist voll schöner Kräuter und Blumen, alle Häuser sind freundlich und reinlich, die Einwohner wohlhabend, ja mir dünkt, die Wälder hier sind schöner und der Himmel blauer, und so weit nur das Auge reicht, sieht man seine Lust und Freude an der freigebigen Natur."—*Tieck*

b

DER TROMPETER VON SÄKKINGEN

"Alt Heidelberg, du feine,
Du Stadt an Ehren reich,
Am Neckar und am Rheine
Kein' andre kommt dir gleich.

Stadt fröhlicher Gesellen,
An Weisheit schwer und Wein,
Klar ziehn des Stromes Wellen
Blauäuglein blitzen drein.

Und kommt aus lindem Süden
Der Frühling übers Land,
So webt er dir aus Blüten
Ein schimmernd Brautgewand.

Auch mir stehst du geschrieben
Ins Herz gleich einer Braut,
Es klingt wie junges Lieben
Dein Name mir so traut.

Und stechen mich die Dornen,
Und wird mir's draus zu kahl,
Geb' ich dem Rofs die Spornen
Und reit' ins Neckarthal."—*Scheffel*

College Department

47TH LIBRARY EXAMINATION

GERMAN—Second Year

Thursday, June 15, 1899—1.15 to 4.15 p. m., only

Credits will be given for neatness, good arrangement and general appearance of answer papers. Papers entitled to 75 or more credits will be accepted.

Translate into English:

a GESCHICHTE DES DREISSIGJÄHRIGEN KRIEGS

Die glorreiche Schlacht Gustav Adolfs bei Leipzig hatte in dem ganzen nachfolgenden Betragen dieses Monarchen, so wie in der Denkart seiner Feinde und Freunde, eine große Veränderung gewirkt. Er hatte sich jetzt mit dem größten Heerführer seiner Zeit gemessen, er hatte die Kraft seiner Taktik und den Mut seiner Schweden an dem Kern der kaiserlichen Truppen, den geübtesten Europens, versucht, und in diesem Wettkampf überwunden. Von diesem Augenblick an schöpfte er eine feste Zuversicht zu sich selbst, und Zuversicht ist die Mutter großer Thaten. Man bemerkte fortan in allen Kriegsunternehmungen des schwedischen Königs einen kühnern und sicherern Schritt, mehr Entschlossenheit auch in den misslichsten Lagen, eine stolzere Sprache gegen seine Feinde, mehr Selbstgefühl gegen seine Bundesgenossen, und in seiner Milde selbst mehr die Herablassung des Gebieters. — *Schiller*

b HERMANN UND DOROTHEA

Freundlich begann sogleich die ungeduldige Hausfrau:

“Saget uns, was ihr gesehn; denn das begehrt’ ich zu wissen.”

“Schwerlich”, versetzte darauf der Apotheker mit Nachdruck,

“Werd’ ich so bald mich freun nach dem, was ich alles erfahren.

Und wer erzählet es wohl, das mannigfaltigste Elend!

Schon von ferne sahn wir den Staub, noch eh wir die Wiesen

Abwärts kamen; der Zug war schon von Hügel zu Hügel

Unabsehlich dahin, man konnte wenig erkennen.

Als wir nun aber den Weg, der quer durchs Thal geht,
erreichten,

War Gedräng’ und Getümmel noch groß der Wanderer und
Wagen.

Leider sahen wir noch genug der Armen vorbeiziehn,
Konnten einzeln erfahren, wie bitter die schmerzliche Flucht
sei,

Und wie froh das Gefühl des eilig geretteten Lebens.
Traurig war es zu sehn, die mannigfaltige Habe,
Die ein Haus nur verbirgt, das wohlversehne, und die ein
Guter Wirt umher an die rechten Stellen gesetzt hat,
Immer bereit zum Gebrauche, denn alles ist nötig und nützlich;
Nun zu sehen das alles, auf mancherlei Wagen und Karren
Durch einander geladen, mit Übereilung geflüchtet.
Über dem Schranke liegt das Sieb und die wollene Decke;
In dem Backtrog das Bett, und das Leintuch über dem Spiegel."

Und es sagte darauf gerührt der menschliche Hauswirt:
"Möge doch Hermann sie treffen und sie erquicken und kleiden.
Ungern würd' ich sie sehen; mich schmerzt der Anblick des
Jammers.

Schon von dem ersten Bericht so großer Leiden gerührt,
Schickten wir eilend ein Scherflein von unserm Überflusse, daß
nur

Einige würden gestärkt, und schienen uns selber beruhigt.
Aber laßt uns nicht mehr die traurigen Bilder erneuern;
Denn es beschleicht die Furcht gar bald die Herzen der Men-
schen,

Und die Sorge, die mehr als selbst mir das Übel verhaßt ist.
Tretet herein in den hinteren Raum, das kühlere Sälchen.
Nie scheint Sonne dahin, nie dringet wärmere Luft dort
Durch die stärkeren Mauern; und Mütterchen bringt uns ein
Gläschen

Dreiundachtziger her, damit wir die Grillen vertreiben.
Hier ist nicht freundlich zu trinken; die Fliegen umsummen
die Gläser."

Und sie gingen dahin und freuten sich alle der Kühlung

—Goethe

College Department

47TH LIBRARY EXAMINATION

FRENCH—First Year

Wednesday, June 14, 1899—1.15 to 4.15 p. m., only

Credits will be given for neatness, good arrangement and general appearance of answer papers. Papers entitled to 75 or more credits will be accepted.

Translate into English:

a

LE ROMAN D'UN JEUNE HOMME PAUVRE

Quelques semaines plus tard, sur le désir formel de mon père, qui, me dit-il, ne faisait qu'obéir aux derniers vœux de celle que nous pleurions, je quittais la France et je commençais à travers le monde cette vie nomade que j'ai menée presque jusqu'à ce jour. Durant une absence d'une année, mon cœur, de plus en plus aimant, à mesure que la mauvaise fougue de l'âge s'amortissait, mon cœur me pressa plus d'une fois de venir me retremper à la source de ma vie, entre la tombe de ma mère et le berceau de ma jeune sœur; mais mon père avait fixé lui-même la durée précise de mon voyage, et il ne m'avait point élevé à traiter légèrement ses volontés. Sa correspondance, affectueuse, mais brève, n'annonçait aucune impatience à l'égard de mon retour; je n'en fus que plus effrayé lorsque, débarquant à Marseille il y a deux mois, je trouvai plusieurs lettres de mon père qui toutes me rappelaient avec une hâte fébrile.

Ce fut par une sombre soirée du mois de février que je revis les murailles massives de notre antique demeure se détachant sur une légère couche de neige qui couvrait la campagne. Une bise aigre et glacée soufflait par intervalles; des flocons de givre tombaient comme des feuilles mortes des arbres de l'avenue, et se posaient sur le sol humide avec un bruit faible et triste. En entrant dans la cour, je vis une ombre, qui me parut être celle de mon père, se dessiner sur une des fenêtres du grand salon, qui était au rez-de-chaussée, et qui, dans les derniers temps de la vie de ma mère, ne s'ouvrait jamais. Je me précipitai; en m'apercevant, mon père poussa une sourde exclamation; puis il m'ouvrit ses bras, et je sentis son cœur palpiter violemment contre le mien.—Tu es gelé, mon pauvre enfant, me dit-il, me tutoyant contre sa coutume. Chauffe-toi.

Cette pièce est froide, mais je m'y tiens maintenant de préférence, parce qu' au moins on y respire.—*Feuillet*

b

LE RENARD ET LE BUSTE

Les grands, pour la plupart, sont masques de théâtre;
Leur apparence impose au vulgaire idolâtre.

L'âne n'en sait juger que par ce qu'il en voit:

Le renard, au contraire, à fond les examine,
Les tourne de tout sens; et, quand il s'aperçoit

Que leur fait n'est que bonne mine,

Il leur applique un mot qu'un buste de héros

Lui fit dire fort à propos.

C'était un buste creux, et plus grand que nature.

Le renard, en louant l'effort de la sculpture:

"Belle tête", dit-il; "mais de cervelle point."

Combien de grands seigneurs sont bustes en ce point!

—*La Fontaine*

College Department

47TH LIBRARY EXAMINATION

FRENCH—Second Year

Friday, June 16, 1899—9.15 a. m. to 12.15 p. m., only

Credits will be given for neatness, good arrangement and general appearance of answer papers. Papers entitled to 75 or more credits will be accepted.

Translate into English:

a

ATHALIE

Joad—Les temps sont accomplis, princesse: il faut parler,

Et votre heureux larcin ne se peut plus celer.

Des ennemis de Dieu la coupable insolence,

Abusant contre lui de ce profond silence,

Accuse trop longtemps ses promesses d'erreur.

Que dis-je? le succès animant leur fureur,

Jusque sur notre autel votre injuste marâtre

Veut offrir à Baal un encens idolâtre.

Montrons ce jeune roi que vos mains ont sauvé,

Sous l'aile du Seigneur dans le temple élevé.

De nos princes hébreux il aura le courage,

Et déjà son esprit a devancé son âge.

Avant que son destin s'explique par ma voix,

Je vais l'offrir au Dieu par qui règnent les rois:

Aussitôt assemblant nos lévites, nos prêtres,

Je leur déclarerai l'héritier de leurs maîtres.

Josabeth—Sait-il déjà son nom et son noble destin?*Joad*—Il ne répond encor qu'au nom d'Éliacin,

Et se croit quelque enfant rejeté par sa mère,

A qui j'ai par pitié daigné servir de père.

Josabeth—Hélas! de quel péril je l'avais su tirer!

Dans quel péril encor il est près de rentrer!

Joad—Quoi! déjà votre foi s'affaiblit et s'étonne?*Josabeth*—A vos sages conseils, seigneur, je m'abandonne.

Du jour que j'arrachai cet enfant à la mort,

Je remis en vos mains tout le soin de son sort;

Même, de mon amour craignant la violence,

Autant que je le puis j'évite sa présence,

De peur qu'en le voyant quelque trouble indiscret
 Ne fasse avec mes pleurs échapper mon secret.
 Surtout j'ai cru devoir aux larmes, aux prières,
 Consacrer ces trois jours et ces trois nuits entières.
 Cependant aujourd'hui puis-je vous demander
 Quels amis vous avez prêts à vous seconder?
 Abner, le brave Abner, viendra-t-il nous défendre?
 A-t-il près de son roi fait serment de se rendre?

Joad—Abner, quoiqu'on se pût assurer sur sa foi,
 Ne sait pas même encor si nous avons un roi.—*Racine*

b

RACINE

Racine, dans les sujets hébreux, est bien autrement à son aise que dans les sujets grecs et romains. Nourri des livres sacrés, partageant les croyances du peuple de Dieu, il se tient strictement au récit de l'Écriture, ne se croit pas obligé de mêler l'autorité d'Aristote à l'action, ni surtout de placer au cœur de son drame une intrigue amoureuse (et l'amour est de toutes les choses humaines celle qui, s'appuyant sur une base éternelle, varie le plus dans ses formes selon les temps, et par conséquent induit le plus en erreur le poète).

En somme, *Athalie* est une œuvre imposante d'ensemble, et par beaucoup d'endroits magnifique, mais non pas si complète ni si désespérante qu'on a bien voulu croire. Racine n'y a pas pénétré l'essence même de la poésie hébraïque orientale; il y marche sans cesse avec précaution entre le naïf du sublime et le naïf du gracieux, et s'interdit soigneusement l'un et l'autre.

—*Sainte-Beuve*

Appendix 2 Tables 1-5
Summaries of statistics of University institutions

TABLE 1

SUMMARY OF STATISTICS OF UNIVERSITIES

AND ALSO OF

three or more professional schools united under
one government

EXPLANATORY NOTES

1 These facts are digested from the sworn reports of the institutions, but in a very few cases where specified items were not given they have been supplied from the most reliable sources available; e. g. the printed documents or previous manuscript reports of the institutions.

2 Facts of a general nature which can not be included under other schools are put under colleges.

3 No blank space appears in any of the columns of statistics in the tables of this report, but where exact figures could not be given one of the following characters has been used:

. . . . means "does not exist in this institution," or that the heading of the column "does not apply."

? means "fact unknown."

? preceding an answer means "probably" or "approximately;" e. g. ? 324 means "to the best of our knowledge and belief about 324."

4 In any case where a ? appears in a column the total for that column should be understood not as absolutely correct, but as approximate.

STATISTICS OF UNIVERSITIES AND ALSO OF THREE OR MORE

| No. | NAME | PRESIDENT OR CHANCELLOR AND DEANS |
|----------------|--|--|
| Columbia.... 1 | ¹ Columbia university..... Columbia college..... Faculty of law..... College of physicians and surgeons..... ^a Faculty of applied science..... Faculty of political science..... Faculty of philosophy..... Faculty of pure science..... Total..... | ² Seth Low LL.D. (President)..... John Howard Van Amringe LL.D..... William A. Keener LL.D..... James W. McLane M.D..... Henry S. Munroe Ph.D..... John W. Burgess LL.D..... Nicholas Murray Butler LL.D..... Robert S. Woodward Ph.D. C.E..... |
| Union..... 2 | ^b Union university..... Union college..... Albany law school..... Albany medical college..... Albany college of pharmacy..... Total..... | Andrew V. V. Raymond D.D. LL.D. (President) Benjamin H. Ripton Ph.D. LL.D. J. Newton Fiero LL.D. Albert Vander Veer Ph.D. M.D. Willie G. Tucker Ph.D. M.D. (President)..... |
| New York... 3 | New York university..... ^c University college..... University law school..... The univ. and Bellevue hosp. med. col. School of pedagogy..... Graduate school..... Total..... | Henry M. MacCracken D.D. LL.D. (Chancellor) ^e Henry M. Baird L.H.D. D.D. LL.D..... Clarence D. Ashley LL.D..... Edward G. Janeway LL.D. M.D. Edward R. Shaw Ph.D..... John Dyneley Prince Ph.D..... |
| Cornell..... 4 | Cornell university..... Graduate department..... Academic department..... College of law..... Medical college..... New York state college of forestry..... College of agriculture..... New York state veterinary college..... College of architecture..... College of civil engineering..... Sibley col. of mech. eng. and mech. arts. Total..... | ^f Jacob Gould Schurman M.A. D.Sc. LL.D..... Horatio Stevens White B.A. Thomas Frederick Crane M.A. Francis M. Finch LL.D. William Mecklenburg Polk LL.D. M.D. Bernhard Edward Fernow LL.D. Isaac Phillips Roberts M. Agr. James Law F.R.C.V.S. Alexander Buell Trowbridge B.S. (in charge). Estevan Antonio Fuertes Ph.D. C.E. M.A. S.C.E. Robert Henry Thurston M.A. LL.D. Dr Eng. |
| Syracuse.... 5 | Syracuse university..... College of arts (liberal and fine)..... School of law..... College of medicine..... Total..... | James Roscoe Day S.T.D. LL.D. (Chancellor). ^g Albert Leonard Ph.D. James B. Brooks M.A. D.C.I. Henry D. Didama LL.D. M.D. |
| Buffalo..... 6 | University of Buffalo..... Buffalo law school..... Medical department..... College of pharmacy..... College of dentistry..... Total..... ^d Grand total 1899..... Grand total 1898..... Grand total 1897..... | James O. Putnam (Chancellor)..... Adelbert Moot..... Matthew D. Mann M.A. M.D. Willis G. Gregory Ph.G. M.D. William C. Barrett M.D.S. M.D. |

^a Including schools of mines, chemistry, engineering and architecture. ^b Dudley observatory also a department; no statistics to report. ^c Including school of applied science. ^d Does not include St Lawrence or Niagara universities which are in the figures for 1897 and 1898. ^e Charles H. Snow C.E. D.Sc. dean of school of applied science. ^f Thomas Frederick Crane M.A., acting president. ^g Ensign McChesney Ph.D. S.T.D. dean of college of fine arts.

TABLE 1

PROFESSIONAL SCHOOLS UNITED UNDER ONE GOVERNMENT

| OFFICERS OF INSTRUCTION | | | | | | EMPLOYEES NOT COUNTED IN FACULTY | | | | | | | | No. |
|-------------------------|---|------------------------|-----------|------------------|--------|----------------------------------|------------|-----------------|-----------------------------------|---------------|----------------------------------|-------|---|-----|
| Full professors | Adjunct, associate and assistant professors | Instructors and tutors | Lecturers | Other assistants | Total | In libraries | In museums | In laboratories | In financial and business offices | In gymnasiums | Janitors, engineers and laborers | Total | | |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | |
| 29 | 4 | 24 | 5 | 16 | 74 | 50 | 6 | 6 | 34 | 6 | 110 | 212 | 1 | |
| 9 | | | 3 | | 11 | | | | | | | | | |
| 14 | 9 | 16 | 9 | 91 | 139 | | | | | | | | | |
| 16 | 9 | 33 | 4 | 27 | 87 | | | | | | | | | |
| 12 | | | 6 | 1 | 19 | | | | | | | | | |
| 17 | 2 | 7 | 4 | 3 | 33 | | | | | | | | | |
| 16 | 6 | 28 | 2 | 30 | 82 | | | | | | | | | |
| h70 | h24 | h86 | h30 | h129 | h339 | 50 | 6 | 6 | 34 | 6 | 110 | 212 | | |
| 12 | 3 | 8 | 6 | | 29 | 2 | 1 | 1 | 5 | | 6 | 15 | 2 | |
| 6 | | | 11 | | 17 | 1 | | | 1 | | 1 | 3 | | |
| 14 | 8 | 18 | 6 | 6 | 52 | | | 1 | | | 1 | 2 | | |
| 8 | | 3 | 1 | | 7 | | | | | | | | | |
| 35 | 11 | 29 | 24 | 6 | 105 | 3 | 1 | 2 | 6 | | 8 | 20 | | |
| 14 | 7 | 3 | 8 | | 32 | 6 | 2 | 2 | 3 | 2 | 14 | 29 | 3 | |
| 8 | | 9 | | | 17 | 4 | | | 2 | | 8 | 14 | | |
| 26 | 8 | 9 | 9 | 37 | 89 | | 1 | 5 | 2 | | 13 | 21 | | |
| 4 | | | 2 | | 6 | 2 | | | 2 | | | 4 | | |
| 22 | 2 | | | | 24 | | | | | | | | | |
| 74 | 17 | 21 | 19 | 37 | 168 | 12 | 3 | 7 | 9 | 2 | 35 | 68 | | |
| 81 | 32 | | | | 113 | 14 | 1 | 1 | 17 | 1 | 1 | 31 | 4 | |
| 81 | 19 | 36 | 24 | 19 | 129 | | | | | | | | | |
| 6 | | | 3 | | 9 | 1 | | | | | | 1 | | |
| 29 | 4 | 22 | 2 | 23 | 80 | | | | | | | | | |
| 14 | 8 | 8 | | 5 | 35 | | | | | | | | | |
| 7 | 2 | 1 | | 16 | 26 | | | | | | | | | |
| 6 | 6 | 7 | 1 | | 20 | 1 | | | | | 5 | 6 | | |
| 1 | 3 | 1 | 4 | | 9 | | | | | | | | | |
| 16 | 1 | 6 | 11 | 3 | 37 | | | | | | | | | |
| 6 | 4 | 14 | 10 | 18 | 52 | | | | | | | | | |
| h81 | h32 | h80 | h52 | 84 | h329 | 16 | 1 | 1 | 17 | 1 | 5 | 38 | | |
| 32 | 3 | 22 | 10 | | 67 | 3 | | | 1 | 2 | 6 | 12 | 5 | |
| | | 5 | 19 | | 24 | | | | | | | | | |
| 18 | | 16 | 10 | | 44 | 1 | | 1 | 3 | | 3 | 7 | | |
| 50 | 3 | 43 | 39 | | 135 | 3 | | 1 | 4 | 2 | 9 | 19 | | |
| 10 | | | 16 | | 26 | | | | | | | | 6 | |
| 7 | 41 | 37 | 6 | 4 | 95 | 2 | 2 | 11 | 1 | | 4 | 20 | | |
| 4 | | 5 | 9 | | 18 | 1 | | 2 | 1 | | | 4 | | |
| 11 | 4 | 6 | 8 | 6 | 35 | | | | 2 | | 1 | 3 | | |
| 32 | 45 | 48 | 39 | 10 | 174 | 3 | 2 | 13 | 4 | | 5 | 27 | | |
| 342 | 132 | 307 | 203 | 266 | 1 250 | 87 | 12 | 29 | 74 | 10 | 172 | 384 | | |
| 324 | 119 | 298 | 149 | 218 | 1 108 | 88 | 8 | 20 | 73 | 12 | 188 | 389 | | |
| 429 | 140 | 299 | 145 | 239 | h1 134 | 88 | 8 | 34 | 60 | 3 | 153 | 346 | | |

h Omitting duplicates.

STATISTICS OF UNIVERSITIES AND ALSO OF THREE OR MORE

| No. | STUDENTS | | | | | | | Total degrees conferred past year on comple- tion of course | HONORARY DEGREES | | | |
|-----|--|---|--|--|---|--|--|---|--|--|--|--|
| | Total | BY COURSES PURSUED | | | BY PREVIOUS EDUCATION | | | | D. D. or S. T. D. | LL. D. | Other degrees | Total |
| | | In regular courses | Unclassified | In graduate courses | College graduates | High school or academy graduates | Non-gradu- ates or not known | | | | | |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 1 | 403 349 726 459 100 105 66 | 365 345 673 413 d .. d .. | 38 4 53 38 32 37 28 | 8 68 68 38 | 217 803 63 75 88 50 | 403 132 423 391 25 17 | ..... ..... ..... ..... ..... ..... | 99 92 140 74 28 34 26 | ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... |
| | a 2 208 | 1 796 | 220 | 182 | 801 | 1 407 | ..... | 493 | ..... | 2 | 5 | 5 |
| 2 | 186 79 154 68 | 186 79 154 68 | ..... ..... ..... ..... | ..... ..... ..... ..... | ..... 17 26 ? | 186 14 ? ? | 48 128 68 | 45 2 67 21 | 2 | 2 | 4 | 8 |
| | 487 | 487 | ..... | ..... | 43 | 200 | 244 | 185 | 2 | 2 | 4 | 8 |
| 3 | 209 637 430 346 161 | 172 514 411 314 | 27 68 19 32 | 10 55 161 | 10 143 49 253 161 | 172 205 151 e 47 | 27 289 230 46 | 32 124 177 21 38 | 4 | 2 ..... ..... ..... | ..... ..... ..... ..... | 6 |
| | 1 783 | 1 411 | 146 | 226 | 616 | 575 | 592 | 392 | 4 | 2 | ..... | 6 |
| 4 | 190 631 164 278 7 174 23 48 185 501 | 610 160 272 7 46 23 44 185 484 | 21 4 6 128 4 17 | 190 | ? 190 ? 7 ? 14 ? 46 ? 7 ? 3 ? 1 ? 7 ? 30 | ? 1 ? 1 ? 1 ? 1 ? 1 ? 1 ? 1 ? 1 ? 1 | 624 150 232 7 167 15 47 178 471 | 85 140 25 67 12 6 8 30 89 | ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... |
| | b 2 190 | 1 831 | 180 | 190 | 305 | 5 | 1 891 | 412 | ..... | ..... | ..... | ..... |
| 5 | 1 001 84 88 | 768 76 88 | 204 8 | 29 | 29 11 8 | 72 69 | 972 1 11 | 88 18 4 | 4 | 2 | 2 | 8 |
| | 1 173 | 932 | 212 | 29 | 48 | 141 | 984 | 110 | 4 | 2 | 2 | 8 |
| 6 | 116 229 76 200 | 110 223 74 200 | 6 6 2 ..... | ..... ..... ..... ..... | 30 16 4 1 | 34 118 ? | 52 100 72 199 | 32 46 36 58 | ..... ..... ..... ..... | ..... ..... ..... ..... | ..... ..... ..... ..... | ..... ..... ..... ..... |
| | 621 | 607 | 14 | ..... | 51 | 147 | 423 | 172 | ..... | ..... | ..... | ..... |
| | c 8 462 | 7 064 | 782 | 627 | 1 864 | 2 475 | 4 134 | 1 695 | 10 | 8 | 9 | 27 |
| | 8 031 | 6 679 | 828 | 524 | 1 563 | 2 389 | 4 079 | 1 727 | 13 | 7 | 7 | 27 |
| | e 7 893 | 6 664 | 637 | 593 | 1 457 | 939 | 5 497 | 1 543 | 10 | 5 | 10 | 25 |

a Not including 278 students of Barnard and 1470 of Teachers college, many of whom took courses at Columbia. b Not including duplicates and 197 men and 153 women attending summer school only. c Not including duplicates. d These faculties offer no fixed courses leading to a degree, but students combine courses under them at will for the degree of M. A. and Ph. D. e Normal graduates. f Including 37 degrees conferred on students of Barnard and three on students of Teachers college.

STATISTICS OF UNIVERSITIES AND ALSO OF THREE OR MORE

| SUMMARY OF PROPERTY, <i>concluded</i> | | | | | | |
|---------------------------------------|------------------------|--------------------|---------------------------|-------------------------|--------------------|----------------------|
| No. | Total property used | Investments | Total college property | Debts at end of year | Net property | Receipts |
| 1 | 36 \$9 565 000 | 27 \$13 581 070 | 38 \$23 146 070 | 39 \$5 905 740 | 40 \$17 240 330 | 41 \$5 458 500 69 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | \$9 565 000 | \$13 581 070 | \$23 146 070 | \$5 905 740 | \$17 240 330 | \$5 458 500 69 |
| 2 | | | | | | |
| | \$583 700 | \$558 221 | \$1 151 921 | \$49 000 | \$1 102 921 | \$116 242 91 |
| | 24 351 | 232 | 24 583 | 10 000 | 14 583 | 7 989 36 |
| | 165 000 | 17 380 | 182 380 | 12 000 | 170 380 | 27 937 58 |
| | 1 649 | 4 268 | 5 917 | | 5 917 | 6 158 62 |
| | \$684 700 | \$580 101 | \$1 264 801 | \$71 000 | \$1 193 801 | \$157 739 47 |
| 3 | | | | | | |
| | \$1 697 670 | \$2 007 359 | \$3 705 029 | \$1 399 000 | \$2 308 029 | \$453 796 77 |
| | 151 818 | 5 000 | 156 818 | | 156 818 | 54 846 . |
| | 512 909 | 110 000 | 622 909 | 145 000 | 477 909 | 68 245 . |
| | 36 629 | 127 500 | 164 129 | | 184 129 | 13 663 32 |
| a | | 12 000 | 12 000 | a | 12 000 | 5 467 72 |
| | \$2 399 026 | \$2 261 759 | \$4 660 885 | \$1 544 000 | \$3 116 885 | \$596 018 81 |
| 4 | | | | | | |
| | \$2 886 644 | \$7 225 523 | \$10 112 168 | | \$10 112 168 | \$675 152 70 |
| | | | | | | |
| | 102 699 | | 102 699 | | 102 699 | |
| | 1 500 000 | 1 | 1 500 000 | | 1 500 000 | |
| | | | | | | |
| | 172 102 | | 172 102 | | 172 102 | 27 710 13 |
| | | | | | | |
| | | | | | | |
| | b \$4 658 397 | \$7 225 523 | b \$11 893 921 | | b \$811 883 921 | \$702 862 83 |
| 5 | | | | | | |
| | \$1 258 000 | \$1 454 485 | \$2 712 485 | \$617 500 | \$2 094 985 | \$256 542 84 |
| | 50 | 650 | 650 | | 650 | 5 207 29 |
| | 93 793 | 2 319 | 96 113 | | 96 113 | 14 167 35 |
| | \$1 351 843 | \$1 457 414 | \$2 809 258 | \$617 500 | \$2 191 758 | \$275 917 48 |
| 6 | | | | | | |
| | \$735 | \$1 207 | \$1 942 | | \$1 942 | \$11 050 07 |
| | 217 968 | 667 | 218 656 | \$33 843 | 194 812 | 28 488 97 |
| | 4 050 | 1 491 | 5 541 | 365 | 5 176 | 6 667 07 |
| | 54 715 | | 54 715 | 34 500 | 20 215 | 26 382 86 |
| | \$277 468 | \$3 365 | \$280 854 | \$68 708 | \$212 145 | \$72 588 97 |
| | | | | | | |
| | \$18 936 454 | \$25 109 332 | \$44 045 789 | \$8 206 948 | \$35 838 840 | \$7 263 628 25 |
| | \$17 242 579 | \$24 946 161 | \$42 188 743 | \$7 590 329 | \$34 598 413 | \$5 469 479 03 |
| | 13 191 799 | 27 647 861 | 40 839 661 | 6 106 469 | 34 733 192 | 2 689 807 96 |

a No separate statistics reported for this department; included with data given for arts department. b Omitting amount duplicated.

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[illegible]

COLUMBIA UNIVERSITY

Morningside heights, New York

Consisting of

| | |
|------------------------------------|------------------------------|
| Columbia college | Faculty of applied science |
| Faculty of law | Faculty of political science |
| College of physicians and surgeons | Faculty of philosophy |
| Faculty of pure science | |

Columbia university is a university and a college with a single board of trustees. The university table immediately preceding the statistics of colleges of arts and science gives a statistical summary of the university as a whole. A general statement in regard to the entire institution is here given; but in the tables of statistics, for purposes of comparison, certain facts relating to the college and to the faculties of law and medicine are given with those of corresponding schools throughout the state, so that each table shall show these facts, so far as possible, in their relation to similar facts concerning independent colleges and professional and technical schools. It is impossible to subdivide the financial statistics as the buildings are so largely used by all schools in common.

Recent changes have been so extensive and radical that the following official statement is printed:

Columbia college in the city of New York is the legal designation of the institution founded in 1754 as King's college by the grant of a royal charter from George 2. The title of the corporation, originally the Governors of the college of the province of New York, is now the Trustees of Columbia college in the city of New York. In 1896 the trustees adopted the following resolution:

Resolved, That in all official publications hereafter issued by or under authority of the trustees, all the departments of instruction and research maintained and managed by this corporation may, for convenience, be designated collectively as "Columbia university in the city of New York," or the "university"; and the school of arts, as the same is now known and described, may hereafter be designated as "Columbia college" or the "college."

They also set off from the school of mines, the schools of chemistry, engineering and architecture, and the faculty conducting these four schools is now known as the faculty of applied science.

Columbia university is governed primarily by 24 trustees whose term of office is for life and who form a self-perpetuating body. The title to all the property of the university is vested in the trustees who also appoint the president and all officers of instruction and administration. The trustees are the ultimate source of authority in all matters pertaining to the university. The president has charge of the educational administration of the university and is the chairman of the university council and of every faculty established by the trustees.

The university council is a body consisting of the president, the dean and secretary of the college, ex officio, and the dean and one elected member from each of the university faculties. This council, subject to the reserve power and control by the trustees, has charge of the general educational interests of the university and of all matters affecting more than one faculty.

The college offers a course of four years' duration in the liberal arts and sciences, leading to the degree of bachelor of arts which is conferred on the recommendation of the faculty of the college.

The university consists of the following faculties: law, medicine, philosophy, political science, pure science and applied science. These faculties have charge of all the graduate work, besides professional instruction in law, medicine and applied science. The faculties are administrative divisions of the teaching body, made in accordance with the natural affiliations of the subjects taught. The schools under their charge form convenient groupings of students. Each school bears the name of its faculty, except that the school conducted by the medical faculty is known as the college of physicians and surgeons, and the schools of mines, chemistry, engineering and architecture are under the charge of the faculty of applied science.

These divisions into faculties and schools neither control nor limit the student in his freedom of selecting under one or several of the faculties courses that lead to the university degrees of master of arts and doctor of philosophy. The degree of master of laws is also a university degree, but for this the choice of the student is restricted to subjects under the two faculties of law and political science. All of these degrees are granted on the recommendation of the university council.

The professional degrees are bachelor of laws, doctor of medicine, bachelor of science, engineer of mines, civil engineer, metallurgical engineer, mechanical engineer and electrical engineer. These are conferred on the recommendation of the faculties of law, medicine and applied science respectively.

The degrees of doctor of laws, doctor of sacred theology and doctor of letters are conferred *causa honoris* by the trustees at their discretion.

The library of the university contains more than 275,000 bound volumes, besides a very large number of pamphlets. More than 800 scientific and literary periodicals are regularly received.

The city of New York is full of opportunities that may be availed of by advanced students. In particular, by special arrangements, peculiar privileges have been obtained for students of Columbia university, free from additional charge, in the Union theological seminary, the Metropolitan museum of art, the American museum of natural history and the New York botanical garden.

The principal administrative officers of the university, other than the president, are the secretary, the treasurer, the deans of the several faculties, the librarian, the bursar and the superintendent of buildings and grounds.

Barnard college, a college for women, is in close affiliation with Columbia university, which makes itself responsible for the curriculum and standards of scholarship at Barnard. Columbia university conducts all the examinations held at Barnard and gives degrees to students of Barnard who comply with Columbia's requirements for the same degrees.

Teachers college, a professional school for teachers, is educationally a part of the university system.

Tables 2, 3 and 4 adopted by the regents for the purpose of presenting a tabular statement of the educational statistics of the state are necessarily prepared from the point of view of small institutions. Thus the table touching colleges contemplates an institution which is nothing but a college. Similarly the tables concerning schools of law, medicine and applied science have in mind institutions which are schools of law, of medicine or of applied science, and nothing else. Consequently it is impossible to express a complex institution like Columbia university with any degree of accu-

racy in the terms of these tables. The attempt is made still more hopeless because the work of the different faculties or schools at Columbia university is so intertwined as to have led the trustees themselves to abandon the attempt to keep separate accounts with the several schools even for their own information. Accordingly the financial statement of Columbia is given herewith in the terms in which it is presented to the trustees.

Summary of the current expenses of Columbia university for the academic year 1898-99:

| | |
|--|--------------|
| Business administration | \$18 764 14 |
| Educational " | 64 142 19 |
| Buildings and grounds | 100 489 80 |
| Gymnasium | 10 487 59 |
| Sloane maternity hospital | 12 500 |
| Vanderbilt clinic | 5 650 |
| Chapel | 2 040 |
| Library | 70 549 64 |
| Emeritus officers | 4 275 |
| Fellowships, scholarships and prizes | 34 098 25 |
| Philosophy, philology and letters | 108 368 79 |
| Natural and exact science | 238 513 99 |
| Law | 35 284 24 |
| Political science | 60 584 48 |
| Medicine | 136 978 19 |
| | <hr/> |
| | \$902 726 30 |

The last five items indicate the amount spent for salaries and departmental expenses. The item for philosophy, philology and letters includes work done in the college and in the school of philosophy. The item for natural and exact science represents generally the outlay for the schools of mines, chemistry, engineering and architecture and for the schools of pure science, but it covers also work done in the college and in the college of physicians and surgeons. The item for political science covers a large amount of instruction given to students of the law school in their course for the LL.B. degree. It thus appears at a glance why the trustees have abandoned the effort to keep their accounts by schools, either as to outgo or to income.

TABLE 2

[For general explanatory notes see page 191]

STATISTICS OF COLLEGES

REPORTING TO THE

University of the State of New York

FOR THE

Year ending 30 June 1899

| No. | NAME | LOCATION | INCORPORATED | |
|----------------------------|---|------------------------------|---------------------------|-----------|
| | | d City or village and county | By regents or legislature | Date |
| 1 COLLEGES FOR MEN | | 2 | 3 | 4 |
| 1 | a Columbia college | New York | C | 31 O 1754 |
| 2 | Union college | Schenectady | R | 25 F 1795 |
| 3 | Hamilton college | Clinton, Oneida | R | 26 My 12 |
| 4 | Hobart college | Geneva, Ontario | R | 8 F 25 |
| 5 | b New York university college | New York | L | 18 Ap 31 |
| 6 | Colgate university | Hamilton, Madison | L | 26 Mr 46 |
| 7 | St John's college | Fordham, New York | L | 10 Ap 46 |
| 8 | University of Rochester | Rochester, Monroe | R | 14 F 51 |
| 9 | College of the city of New York | New York | L | 15 Ap 54 |
| 10 | St Stephen's college | Annandale, Dutchess | L | 20 Mr 60 |
| 11 | College of St Francis Xavier | New York | R | 10 Ja 61 |
| 12 | Manhattan college | New York | R | 2 Ap 63 |
| 13 | Robert college of Constantinople | Constantinople, Turkey | L | 4 My 64 |
| 14 | Syrian protestant college | Beirut, Syria | R | 4 Je 69 |
| 15 | Polytechnic institute of Brooklyn | Brooklyn, Kings | f GL | 29 S 71 |
| 16 | St John's college | Brooklyn, Kings | R | 1 Mr 75 |
| 17 | St Bonaventure's college | Allegany, Cattaraugus | R | 11 Je 83 |
| 18 | Canisius college | Buffalo, Erie | R | 7 Ag 83 |
| 19 | Niagara university, collegiate dep't. | Niagara Univ., Niagara | R | 8 My 84 |
| 20 | St Francis college | Brooklyn, Kings | L | 7 Je 81 |
| 21 | Mackenzie college | Sao Paulo, Brazil | R | 7 Je 91 |
| 22 | Christian college in China | Canton, China | R | 13 D 93 |
| 23 | Holy Angels college | Buffalo, Erie | R | 4 N 97 |
| COLLEGES FOR WOMEN | | | | |
| 1 | Elmira college | Elmira, Chemung | L | 13 Ap 55 |
| 2 | Vassar college | Poughkeepsie, Dutchess | L | 18 Ja 61 |
| 3 | Wells college | Aurora, Cayuga | L | 28 Mr 68 |
| 4 | Normal college of the city of N. Y. | New York | L | 9 Je 88 |
| 5 | Barnard college | New York | R | 8 Ag 89 |
| COLLEGES FOR MEN AND WOMEN | | | | |
| 1 | St Lawrence univ., college of letters & science | Canton, St Lawrence | L | 3 Ap 56 |
| 2 | Alfred university | Alfred, Allegany | L | 28 Mr 57 |
| 3 | c Cornell university | Ithaca, Tompkins | L | 27 Ap 65 |
| 4 | Syracuse university (liberal & fine arts) | Syracuse, Onondaga | L | 29 Mr 70 |
| 5 | Keuka college | Keuka College, Yates | R | 11 F 92 |
| 6 | Adelphi college | Brooklyn, Kings | R | 24 Je 96 |

a See explanatory note, p. 191. Including statistics for faculty of applied science. b Including school of applied science. c Including statistics for all departments except law, medical, graduate and veterinary; law, however, is included in figures under summary of property except buildings and in receipts and expenses except in the totals of each. d For summary of colleges by counties, see table 5. e Colonial charter. f General law.

| Denomination | President of university or college | Dean of faculty | No. |
|--------------|---|------------------------------------|-----|
| 5 | 6 | 7 | |
| | Seth Low LL.D. | † J. Howard Van Amringe LL.D. | 1 |
| | Andrew V. V. Raymond D.D. LL.D. | Benjamin H. Ripton Ph.D. LL.D. | 2 |
| P. | M. Woolsey Stryker D.D. LL.D. | Rev. A. Grosvenor Hopkins Ph.D. | 3 |
| P. E. | Robert Elias Jones D.D. | William Pitt Darfee Ph.D. | 4 |
| | Henry M. MacCracken D.D. LL.D. (Chanc.) | † Henry M. Baird L.H.D. D.D. | 5 |
| B. | George Edmands Merrill D.D. | William Henry Crawshaw | 6 |
| R. C. | Rev. Thomas J. Campbell | Rev. H. T. Casten S.J. | 7 |
| B. | Henry F. Burton M.A. (Acting) | | 8 |
| | Alexander Stewart Webb LL.D. | | 9 |
| P. E. | George B. Hopson D.D. (Acting warden) | | 10 |
| R. C. | Rev. Thomas E. Murphy | Rev. David W. Hearn S.J. | 11 |
| R. C. | Rev. Brother Justin LL.D. | Rev. Brother James | 12 |
| | George Washburn D.D. | Albert L. Long | 13 |
| | Daniel Bliss D.D. | | 14 |
| | David H. Cochran M.A. Ph.D. LL.D. | | 15 |
| R. C. | Rev. James J. Sullivan | | 16 |
| R. C. | Very Rev. Joseph F. Butler | | 17 |
| R. C. | Rev. J. B. Theis | | 18 |
| R. C. | Rt Rev. James E. Quigley D.D. (Chanc.) | Very Rev. Patrick McHale (Pres.) | 19 |
| R. C. | Brother Jerome | | 20 |
| P. | Horace M. Lane M.D. | William A. Waddell M.A. Ph.D. C.E. | 21 |
| P. | Rev. Oscar F. Wisner | | 22 |
| R. C. | Terence W. Smith M.A. | | 23 |
| P. | A. Cameron MacKenzie D.D. | | 1 |
| | James M. Taylor D.D. LL.D. | | 2 |
| | William Everett Waters Ph.D. | | 3 |
| | Thomas Hunter Ph.D. LL.D. | | 4 |
| | Emily James Putnam B.A. (Dean) | | 5 |
| J. B. | John Clarence Lee Ph.D. S.T.D. | Henry Priest Ph.D. | 1 |
| | Boothe Colwell Davis Ph.D. | | 2 |
| | Jacob Gould Schurman M.A. D.Sc. LL.D. | † | 3 |
| M. E. | James R. Day S.T.D. LL.D. (Chanc.) | † Albert Leonard Ph.D. | 4 |
| B. | George H. Ball D.D. | Edwin C. Hayes | 5 |
| | Charles H. Levermore Ph.D. | | 6 |

g P. presbyterian, P. E. protestant episcopal, B. baptist, R. C. Roman catholic, M. E. methodist episcopal. h Seventh day baptist. i Henry S. Munroe Ph.D., dean of faculty of applied science. j Charles H. Snow D.Sc. C.E., dean of school of applied science. k For deans of the several faculties see table 1. l Ensign McChesney Ph.D. S.T.D., dean of college of fine arts.

| No. | Officers of instruction | Total students | Net property | COMMENCEMENT | | DAYS ACTUALLY IN SESSION | | OFFICERS OF | | |
|-----------|-------------------------|----------------|-----------------|--------------|-----------|--------------------------|----------------------------------|-----------------|---|------------------------|
| | | | | June 1899 | June 1900 | Full session | Half holidays or partial session | Full professors | Adjunct, associate and assistant professors | Instructors and tutors |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 1 | 133 | 862 | \$44 424 080 24 | 7 | 13 | 157 | 37 | 37 | 12 | 46 |
| 2 | 29 | 186 | 1 102 921 07 | 28 | 27 | 181 | ..... | 12 | 3 | 8 |
| 3 | 19 | 154 | 1 961 321 14 | 29 | 28 | 204 | 4 | 11 | 7 | 1 |
| 4 | 18 | 92 | 682 180 79 | 21 | 20 | 144 | 68 | 8 | 3 | 3 |
| 5 | 32 | 209 | 2 306 029 77 | 8 | 9 | 170 | 2 | 14 | 7 | 5 |
| 6 | 16 | 134 | 2 418 202 64 | 22 | 21 | 172 | ..... | 10 | 1 | 3 |
| 7 | 27 | 96 | 847 946 85 | 21 | 20 | 210 | ..... | 22 | ..... | 2 |
| 8 | 15 | 213 | 1 265 893 31 | 21 | 20 | 180 | ..... | 10 | 1 | 4 |
| 9 | 60 | 1 017 | 836 050 | 22 | 21 | 176 | ..... | 12 | 15 | 33 |
| 10 | 9 | 51 | 338 412 35 | 15 | 14 | 179 | 30 | 6 | 2 | 1 |
| 11 | 18 | 191 | 653 947 50 | 26 | 25 | 175 | 13 | 11 | 1 | ..... |
| 12 | 36 | 146 | 692 020 39 | 20 | 21 | 145 | 74 | 20 | 3 | 3 |
| 13 | 28 | 82 | 466 271 | 30 | 27 | 139 | 70 | 8 | ..... | 16 |
| 14 | 12 | 106 | 1 646 878 65 | 12 | 11 | 179 | 36 | 6 | 2 | 4 |
| 15 | 14 | 83 | 337 955 59 | 13 | 12 | 177 | ..... | 12 | 1 | 1 |
| 16 | 18 | 43 | 244 184 | 23 | 22 | 179 | 2 | 13 | ..... | ..... |
| 17 | 15 | 66 | 255 300 | 21 | 22 | 194 | 38 | 15 | ..... | ..... |
| 18 | 30 | 41 | 333 408 98 | 21 | 21 | 148 | 74 | 10 | 7 | 7 |
| 19 | 12 | 92 | 190 500 | 20 | 19 | 172 | 1 | 9 | 3 | ..... |
| 20 | 26 | 42 | 157 290 39 | 22 | 25 | 187 | 2 | 8 | 5 | 3 |
| 21 | 14 | 56 | 153 243 47 | 17 | ..... | 192 | ..... | 8 | 3 | 2 |
| 22 | 4 | 110 | 1 138 635 07 | ..... | ..... | 182 | 136 | 2 | 1 | 1 |
| 23 | ..... | ..... | 308 321 50 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Total | 585 | 3 972 | \$29 760 994 70 | ..... | ..... | ..... | ..... | 264 | 77 | 143 |
| a Average | 27 | 181 | 1 293 956 29 | ..... | ..... | ..... | ..... | 12 | 4 | ..... |
| 1 | 25 | 73 | \$248 375 | 6 | 13 | 168 | ..... | 11 | 6 | ..... |
| 2 | 73 | 624 | 2 354 667 | 14 | 13 | 168 | 4 | 18 | 2 | 33 |
| 3 | 26 | 93 | 406 425 98 | 14 | 13 | 205 | 2 | 15 | 1 | 2 |
| 4 | 82 | 1 776 | 1 467 500 | 22 | 21 | 195 | ..... | 9 | ..... | 73 |
| 5 | 40 | 278 | 914 587 28 | 7 | 13 | 193 | ..... | 11 | ..... | 14 |
| Total | 246 | 2 844 | \$5 391 556 26 | ..... | ..... | ..... | ..... | 64 | 9 | 122 |
| a Average | 49 | 569 | 1 078 311 05 | ..... | ..... | ..... | ..... | 13 | 3 | 31 |
| 1 | 12 | 125 | \$300 283 56 | 28 | 27 | 177 | 34 | 7 | ..... | 1 |
| 2 | 22 | 69 | 342 542 62 | 22 | 21 | 186 | ..... | 10 | 1 | 6 |
| 3 | 225 | 1 546 | 10 112 168 14 | 22 | 21 | 218 | 51 | 32 | 57 | 5 |
| 4 | 67 | 1 001 | 2 094 995 67 | 7 | 13 | 199 | ..... | 32 | 3 | 22 |
| 5 | 7 | 18 | 1 275 934 | 20 | 15 | 172 | 4 | 2 | ..... | ..... |
| 6 | 26 | 108 | 229 163 08 | 9 | 8 | 176 | ..... | 11 | 4 | 11 |
| Total | 359 | 2 867 | \$13 355 087 07 | ..... | ..... | ..... | ..... | 115 | 42 | 97 |
| a Average | 60 | 478 | 2 225 847 85 | ..... | ..... | ..... | ..... | 19 | 8 | 19 |
| College | 1 190 | 9 683 | 48 507 637 03 | ..... | ..... | ..... | ..... | 443 | 128 | 362 |
| b All | 3 306 | 31 490 | 73 050 218 | ..... | ..... | ..... | ..... | 1 037 | 358 | 988 |

a Average obtained by dividing the total of each column by the number of schools reporting figures in each. b Grand total of colleges and professional and technical schools, tables 2, 3 and 4. This total includes also the graduate departments of Columbia, Cornell and New York university, which are reported in table 1. Items duplicated in tables are omitted in total. c Excluding graduate department which is reported in table 1. d Excluding graduate department which is reported in table 1 and 197 men and 153 women attending summer school only. e Not including 2263 students in Chautauqua summer school; report received too late for insertion in tables. f Including all departments except law and medical. g Including theological department. h Including medical, pharmacy and preparatory departments. i Including academic department. j Including all departments except veterinary and medical college property and law school building. k July. l November. m Not including summer session.

TABLE 2—STATISTICS OF COLLEGES

| INSTRUCTION | | | | | | EMPLOYEES NOT COUNTED IN FACULTY | | | | | | | | No. |
|-------------|--------------------------------|-------|-------|----------|------------------------------|----------------------------------|------------|-----------------|-----------------------------------|---------------|----------------------------------|-------|------|-----|
| Lecturers | Other asst's on teaching force | TOTAL | | | | In libraries | In museums | In laboratories | In financial and business offices | In gymnasiums | Janitors, engineers and laborers | Total | | |
| | | Men | Women | Resident | Non-resident or partial time | | | | | | | | | |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | |
| 3 | 35 | 133 | | 133 | | | | | | | | | 1 | |
| 6 | | 29 | | 22 | 7 | 2 | 1 | 1 | 5 | | 6 | 15 | 2 | |
| | | 19 | | 19 | | 1 | | | | | 4 | 5 | 3 | |
| 3 | 1 | 18 | | 15 | 3 | 2 | | 1 | 2 | | 3 | 8 | 4 | |
| 8 | | 82 | | 23 | 9 | 6 | 2 | 2 | 3 | 2 | 14 | 29 | 5 | |
| | | 16 | | 16 | | 3 | | | 2 | | 7 | 12 | 6 | |
| 3 | | 27 | | 24 | 3 | 3 | | 1 | 2 | | 54 | 60 | 7 | |
| | | 15 | | 15 | | 2 | | 1 | | | 3 | 6 | 8 | |
| | | 60 | | 60 | | 1 | 1 | 1 | 2 | | 5 | 10 | 9 | |
| | | 9 | | 7 | 2 | 2 | | | | | 2 | 4 | 10 | |
| 4 | 2 | 18 | | 16 | 2 | 1 | o 1 | | 3 | p 1 | 9 | 15 | 11 | |
| 7 | 3 | 86 | | 21 | 15 | 2 | 1 | 2 | 3 | 4 | 13 | 25 | 12 | |
| | 4 | 28 | | 22 | 6 | | | | | | 20 | 20 | 13 | |
| | | 12 | | 6 | 6 | 1 | | | | | 1 | 2 | 14 | |
| | | 14 | | 14 | | 1 | | | 1 | 2 | 5 | 9 | 15 | |
| 5 | | 18 | | 11 | 7 | 8 | 2 | 2 | 2 | 2 | 4 | 20 | 16 | |
| | | 15 | | 15 | | 1 | 1 | 1 | 2 | | 3 | 8 | 17 | |
| | 6 | 80 | | 25 | 5 | 2 | 2 | 1 | 1 | 1 | 23 | 30 | 18 | |
| | | 12 | | 11 | 1 | | | | | | 130 | 130 | 19 | |
| 2 | 8 | 26 | | 22 | 4 | 1 | 1 | | 4 | 1 | 10 | 17 | 20 | |
| | 1 | 14 | | 10 | 4 | 1 | | 1 | | | 4 | 6 | 21 | |
| | | 4 | | 4 | | | | | | | 2 | 2 | 22 | |
| | | | | | | | | | | | | | 23 | |
| 41 | 60 | 585 | | 511 | 74 | 40 | 12 | 14 | 32 | 18 | 222 | 333 | Tot. | |
| 5 | 8 | 27 | | 23 | 5 | 2 | 1 | 1 | 2 | 2 | 11 | 16 | Av. | |
| 8 | | 14 | | 11 | 17 | | | | 2 | 1 | 15 | 18 | 1 | |
| 14 | 6 | 26 | 47 | 57 | 16 | 2 | 1 | 1 | 5 | 1 | 34 | 44 | 2 | |
| 7 | 1 | 12 | 14 | 19 | 7 | 3 | | 1 | 3 | 1 | 30 | 38 | 3 | |
| | | 7 | 75 | 81 | 1 | 1 | | | 2 | | 3 | 6 | 4 | |
| 6 | 9 | 39 | 1 | 8 | 32 | | | 1 | 2 | q 24 | 8 | 35 | 5 | |
| 35 | 16 | 98 | 148 | 182 | 64 | 6 | 1 | 3 | 14 | 27 | 90 | 141 | Tot. | |
| 9 | 5 | 20 | 30 | 36 | 13 | 2 | 1 | 1 | 3 | 7 | 18 | 28 | Av. | |
| 2 | 2 | 11 | 1 | 8 | 4 | | | | 2 | | 1 | 3 | 1 | |
| 3 | 2 | 17 | 5 | 12 | 10 | | | | 4 | | 12 | 21 | 2 | |
| 31 | 54 | 220 | 5 | 196 | 29 | 14 | ? | ? | 17 | ? | ? | 31 | 3 | |
| 10 | | 53 | 14 | 57 | 10 | 3 | | | 1 | 2 | 6 | 12 | 4 | |
| 1 | | 5 | 2 | 7 | | 1 | | | 1 | 1 | 1 | 4 | 5 | |
| | | 17 | 9 | 22 | 4 | 1 | | 1 | 1 | | 1 | 4 | 6 | |
| 47 | 58 | 323 | 36 | 302 | 57 | 23 | | 1 | 26 | 4 | 21 | 75 | Tot. | |
| 9 | 19 | 54 | 6 | 50 | 11 | 5 | | 1 | 4 | 1 | 4 | 13 | Av. | |
| 123 | 134 | 1006 | 184 | 995 | 195 | 69 | 13 | 18 | 72 | 44 | 333 | 549 | Col. | |
| 473 | 450 | 2879 | 427 | 2199 | 1107 | 211 | 27 | 56 | 223 | 61 | 685 | 1263 | All | |

n Four of the professors also give lectures.
dormitory. r Reported for university in table 1.

o In laboratory also. p In armory. q In

| NUMBER AND CLASSIFI- | | | | | | | | | | |
|----------------------|----------------------|-------|----------------------|-------|-------------------|-------|--------------------|-------|--------------|-------|
| No. | BY CLASSES | | | | | | | | BY | |
| | FRESHMAN 1ST YEAR | | SOPHOMORE 2D YEAR | | JUNIOR 3D YEAR | | SENIOR 4TH YEAR | | ARTS B.A. | |
| | Men | Women | Men | Women | Men | Women | Men | Women | Men | Women |
| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 120 Colum | 1 | 326 | 207 | | 150 | | 95 | | 365 | |
| 2 Union | 2 | 60 | 41 | | 40 | | 45 | | 73 | |
| 3 Hamilt | 3 | 40 | 83 | | 35 | | 45 | | 118 | |
| 4 Robert | 4 | 27 | 24 | | 9 | | 19 | | 45 | |
| 5 M. Y. U | 5 | 53 | 43 | | 45 | | 31 | | 119 | |
| 6 Colgate | 6 | 38 | 31 | | 30 | | 25 | | 80 | |
| 7 St John | 7 | 24 | 24 | | 29 | | 19 | | 86 | |
| 8 Roches | 8 | 45 | 42 | | 31 | | 27 | | 96 | |
| 9 C. C. N. | 9 | 485 | 251 | | 175 | | 106 | | 453 | |
| 10 St Step | 10 | 12 | 22 | | 8 | | 9 | | 39 | |
| 11 St Fran | 11 | 46 | 50 | | 29 | | 31 | | 156 | |
| 12 Manhat | 12 | 46 | 45 | | 30 | | 25 | | 118 | |
| 13 Robert | 13 | 20 | 30 | | 19 | | 13 | | 82 | |
| 14 Syrian | 14 | 58 | 34 | | 5 | | 9 | | 106 | |
| 15 Polytec | 15 | 37 | 14 | | 13 | | 18 | | 11 | |
| 16 St John | 16 | 12 | 5 | | 10 | | 16 | | 43 | |
| 17 St Bona | 17 | 14 | 16 | | 21 | | 15 | | 66 | |
| 18 Canisus | 18 | 16 | 10 | | 14 | | 1 | | 41 | |
| 19 Niagara | 19 | 30 | 29 | | 16 | | 17 | | 92 | |
| 20 St Fran | 20 | 13 | 11 | | 9 | | 9 | | 42 | |
| 21 Macke | 21 | 27 | 14 | | 8 | | 5 | | 10 | |
| 22 China | 22 | | | | | | | | | |
| 23 Holy A | 23 | | | | | | | | | |
| Tot. | 1 429 | | 976 | | 721 | | 580 | | 2 241 | |
| Av. | 68 | | 46 | | 34 | | 28 | | 107 | |
| 1 Elmira | 1 | 33 | 19 | | 14 | | 7 | | 46 | |
| 2 Vassar | 2 | 178 | 173 | | 126 | | 116 | | 593 | |
| 3 Wells | 3 | 32 | 16 | | 8 | | 8 | | 64 | |
| 4 N. C. Q | 4 | 664 | 552 | | 421 | | 131 | | 579 | |
| 5 Barnar | 5 | 45 | 38 | | 24 | | 24 | | 130 | |
| Tot. | | 952 | 798 | | 593 | | 286 | | 1 413 | |
| Av. | | 190 | 160 | | 119 | | 57 | | 283 | |
| 1 St Law | 1 | 17 | 8 | 19 | 8 | 16 | 4 | 13 | 7 | 22 |
| 2 Alfred | 2 | 11 | 6 | 4 | 6 | 6 | 4 | 8 | 2 | 12 |
| 3 Cornell | 3 | 406 | 79 | 324 | 52 | 226 | 46 | 190 | 53 | 260 |
| 4 Syracu | 4 | 197 | 192 | 75 | 96 | 46 | 85 | 32 | 45 | 144 |
| 5 Kenka | 5 | 3 | 3 | 1 | 2 | 3 | 3 | | | 4 |
| 6 Adelphi | 6 | 8 | 44 | 6 | 25 | 1 | 8 | 1 | 14 | 4 |
| Tot. | | 642 | 332 | 429 | 187 | 297 | 150 | 244 | 121 | 446 |
| Av. | | 107 | 55 | 72 | 37 | 50 | 25 | 49 | 24 | 74 |
| Col. | | 2 071 | 1 284 | 1 405 | 985 | 1 018 | 743 | 824 | 407 | 2 687 |
| All | | 7 888 | 6 482 | 4 217 | 1 225 | 2 508 | 882 | 1 609 | 485 | 2 687 |

TABLE 2—STATISTICS OF COLLEGES

209

| CATION OF STUDENTS | | | | | | | | | | No. |
|--------------------|-------|------------------|-------|---------------|-------|---------------------------------|-------|--|-------|------|
| COURSES | | | | | | TOTAL IN UNDER-GRADUATE COURSES | | UNCLASSIFIED STUDENTS OF COLLEGE GRADE | | |
| SCIENCE B.S. | | PHILOSOPHY Ph B. | | OTHER DEGREES | | | | | | |
| Men | Women | Men | Women | Men | Women | Men | Women | Men | Women | |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | |
| all | | | | 302 | | 778 | | 76 | | 1 |
| 23 | | 45 | | 45 | | 186 | | | | 2 |
| | | 35 | | | | 153 | | 1 | | 3 |
| | | 6 | | 28 | | 79 | | 6 | | 4 |
| 53 | | | | | | 172 | | 27 | | 5 |
| 13 | | 31 | | | | 124 | | 9 | | 6 |
| 10 | | | | | | 96 | | | | 7 |
| 11 | | 38 | | | | 145 | | 51 | | 8 |
| 564 | | | | | | 1 017 | | | | 9 |
| | | | | 12 | | 51 | | | | 10 |
| | | | | | | 156 | | | | 11 |
| 28 | | | | | | 146 | | | | 12 |
| | | | | | | 82 | | | | 13 |
| 71 | | | | | | 106 | | | | 14 |
| | | | | | | 82 | | | | 15 |
| | | | | | | 43 | | | | 16 |
| | | | | | | 66 | | | | 17 |
| | | | | | | 41 | | | | 18 |
| | | | | | | 92 | | | | 19 |
| 39 | | | | | | 42 | | 7 | | 20 |
| | | | | | | 49 | | 110 | | 21 |
| | | | | | | | | | | 22 |
| | | | | | | | | | | 23 |
| 923 | | 155 | | 387 | | 3 706 | | 187 | | Tot. |
| 92 | | 31 | | 97 | | 176 | | 23 | | Av. |
| | 27 | | | | | | 73 | | | 1 |
| | | | | | | | 593 | | 20 | 2 |
| | | | | | | | 64 | | 29 | 3 |
| | | | | 1 189 | | | 1 768 | | | 4 |
| | | | | | | | 131 | 1 | 70 | 5 |
| | 27 | | | | 1 189 | | 2 639 | 1 | 119 | |
| | 27 | | | | 1 189 | | 526 | 1 | 40 | Tot. |
| | | | | | | | | | | Av. |
| 40 | 7 | 3 | 5 | | | 65 | 27 | 8 | 4 | 1 |
| 13 | | 4 | 16 | | | 29 | 18 | 13 | 6 | 2 |
| 87 | 31 | 33 | 32 | 766 | 7 | 1 146 | 230 | 151 | 19 | 3 |
| 50 | 22 | 82 | 110 | 74 | 226 | 350 | 418 | 64 | 140 | 4 |
| | | 2 | 5 | | | 6 | 6 | 3 | 3 | 5 |
| 12 | 1 | | | | 24 | 16 | 91 | | 1 | 6 |
| 202 | 61 | 124 | 168 | 840 | 257 | 1 612 | 790 | 230 | 173 | Tot. |
| 40 | 15 | 25 | 34 | 420 | 86 | 269 | 132 | 48 | 29 | Av. |
| 1 125 | 88 | 279 | 168 | 1 227 | 1 446 | 5 318 | 3 419 | 427 | 292 | Col. |
| 1 785 | 100 | 279 | 168 | 11 471 | 7 089 | 16 222 | 9 074 | 2 004 | 2 317 | All |

a Of these 37 are taking a course in chemistry and 77 in architecture.

| No. | NUMBER AND CLASSIFICATION OF STUDENTS, <i>concluded</i> | | | | | | |
|----------|---|-------|------------------------------|----------|--------------------------------------|----------------------------------|----------------------------|
| | IN GRADUATE COURSES | | GRAND TOTAL OF COLLEGE GRADE | | TOTAL STUDENTS BY PREVIOUS EDUCATION | | |
| | Men | Women | Men | Women | College graduates | High school or academy graduates | Non-graduates or not known |
| | 51 | 52 | 53 | 54 | 55 | 56 | 57 |
| 1 | 8 | | 862 | | 68 | 704 | |
| 2 | | | 186 | | | 186 | |
| 3 | | | 154 | | 1 | ? | 153 |
| 4 | 7 | | 92 | | 7 | 51 | 84 |
| 5 | 10 | | 209 | | 10 | 172 | 27 |
| 6 | 1 | | 134 | | | 125 | 9 |
| 7 | | | 96 | | | 86 | 10 |
| 8 | 17 | | 213 | | 5 | ? | 208 |
| 9 | | | 1 017 | | | | 1 017 |
| 10 | | | 51 | | | 19 | 32 |
| 11 | 35 | | 191 | | 17 | 156 | 18 |
| 12 | | | 146 | | | 99 | 47 |
| 13 | | | 82 | | | 182 | |
| 14 | | | 106 | | | 93 | 13 |
| 15 | 1 | | 83 | | 1 | 82 | |
| 16 | | | 43 | | | ? | 43 |
| 17 | | | 66 | | | 66 | |
| 18 | | | 41 | | | 41 | |
| 19 | | | 92 | | | 115 | 77 |
| 20 | | | 42 | | | 36 | 6 |
| 21 | | | 56 | | | 40 | 16 |
| 22 | | | 110 | | | ? | 110 |
| 23 | | | | | | | |
| Tot..... | 79 | | 3 972 | | 109 | 2 143 | 1 720 |
| Av..... | 11 | | 181 | | 16 | 126 | 108 |
| 1 | | | | 73 | | 70 | 3 |
| 2 | | 11 | | 624 | 12 | ? | 612 |
| 3 | | | | 93 | | 91 | 2 |
| 4 | | 8 | | 1 776 | | | 1 776 |
| 5 | 1 | 75 | 2 | 276 | 76 | | 202 |
| Tot..... | 1 | 94 | 2 | 2 842 | 88 | 161 | 2 595 |
| Av..... | 1 | 31 | 2 | 568 | 44 | 81 | 519 |
| 1 | 13 | 8 | 86 | 89 | 21 | 80 | 24 |
| 2 | 1 | 2 | 43 | 26 | 3 | 50 | 16 |
| 3 | | | 1 297 | 1 249 | 151 | ? | 1 484 |
| 4 | 15 | 14 | 429 | 572 | 29 | ? | 872 |
| 5 | | | 9 | 9 | | 11 | 7 |
| 6 | | | 16 | 92 | | 99 | 9 |
| Tot..... | 29 | 24 | 1 880 | 987 | 104 | 240 | 2 512 |
| Av..... | 10 | 8 | 313 | 165 | 26 | 60 | 419 |
| Col..... | 109 | 118 | 5 854 | 3 829 | 301 | 2 544 | 6 827 |
| All..... | 1 582 | 302 | 6 19 799 | 6 11 691 | 3 890 | 4 756 | 22 844 |

^aExcluding graduate department which is reported in table 1 and 197 men and 153 women attending summer school only. ^bNot including 2263 students of Chautauqua summer school; report received too late for insertion in tables.

TABLE 2—STATISTICS OF COLLEGES

211

| SUBFRESHMEN AND LOWER GRADES | | DEGREES ALREADY HELD BY STUDENTS | | | | | | | | No. |
|------------------------------------|-------|----------------------------------|-------|--------|-------|--------|-------|------------------|---------|-------|
| | | B. A. | B. S. | Ph. B. | C. E. | LL. B. | M. D. | Other degrees | Total | |
| Boys | Girls | | | | | | | | | |
| 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | |
| ..... | ..... | 35 | 17 | 4 | 4 | 1 | ..... | 11 | c 72 | 1 |
| ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | 1 | 2 |
| ..... | ..... | 7 | ..... | ..... | ..... | ..... | ..... | ..... | 7 | 3 |
| ..... | ..... | ..... | 10 | ..... | ..... | ..... | ..... | ..... | 10 | 4 |
| 140 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5 |
| 166 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 6 |
| ..... | ..... | 3 | 2 | ..... | ..... | ..... | 1 | ..... | 6 | 7 |
| 687 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 8 |
| 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 9 |
| 809 | ..... | 17 | ..... | ..... | ..... | ..... | ..... | ..... | 17 | 10 |
| 570 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 11 |
| 206 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 12 |
| 203 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 13 |
| 480 | ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | 14 |
| 135 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 | 15 |
| 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 16 |
| 185 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 17 |
| 81 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 18 |
| 198 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 19 |
| 312 | 210 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 20 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 21 |
| 45 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 22 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 23 |
| 3 772 | 210 | 62 | 80 | 4 | 5 | 1 | 1 | 11 | 114 | Tot. |
| 236 | 210 | 16 | 8 | 4 | 3 | 1 | 1 | 11 | 16 | Av. |
| | | | | | | | | | | |
| ..... | ..... | 12 | ..... | ..... | ..... | ..... | ..... | ..... | 12 | 1 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2 |
| 1 714 | 1 352 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3 |
| ..... | ..... | 58 | 7 | 1 | ..... | ..... | ..... | 10 | 76 | 4 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5 |
| 714 | 1 352 | 70 | 7 | 1 | ..... | ..... | ..... | 10 | 88 | Tot. |
| 714 | 1 352 | 35 | 7 | 1 | ..... | ..... | ..... | 10 | 44 | Av. |
| ..... | ..... | 11 | 4 | 6 | ..... | ..... | ..... | ..... | 21 | 1 |
| 57 | 39 | 1 | ..... | 2 | ..... | ..... | ..... | ..... | 3 | 2 |
| ..... | ..... | 14 | 22 | 4 | 3 | ..... | ..... | 8 | 51 | 3 |
| ..... | ..... | 12 | 1 | 5 | ..... | ..... | ..... | 11 | 29 | 4 |
| 69 | 37 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5 |
| 82 | 131 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 6 |
| | | | | | | | | | | |
| 208 | 207 | 38 | 27 | 17 | 3 | ..... | ..... | 19 | 104 | Tot. |
| 69 | 69 | 10 | 9 | 4 | 3 | ..... | ..... | 10 | 26 | Av. |
| 4 694 | 1 769 | 170 | 64 | 22 | 8 | 1 | 1 | 40 | 306 | Col. |
| 5 150 | 2 451 | 1 793 | 889 | 188 | 24 | 102 | 924 | 540 | d 3 960 | All |

c Held by 68 students.

d Held by 3724 students.

| No. | DEGREES CONFERRED ON COMPLETION OF COURSE DURING YEAR | | | | | | | | | |
|-----------|---|-------|-------|-------|--------|-------|------------|-------|-------------------|-------|
| | B. A. | | B. S. | | PH. B. | | ALL OTHERS | | TOTAL DURING YEAR | |
| | Men | Women | Men | Women | Men | Women | Men | Women | Men | Women |
| | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 |
| 1 | 59 | ..... | 20 | ..... | ..... | ..... | 45 | ..... | 124 | ..... |
| 2 | 14 | ..... | 8 | ..... | 12 | ..... | 11 | ..... | 45 | ..... |
| 3 | 33 | ..... | ..... | ..... | 12 | ..... | ..... | ..... | 45 | ..... |
| 4 | 12 | ..... | ..... | ..... | 1 | ..... | 4 | ..... | 17 | ..... |
| 5 | 13 | ..... | 12 | ..... | 4 | ..... | 3 | ..... | 32 | ..... |
| 6 | 14 | ..... | 2 | ..... | 9 | ..... | ..... | ..... | 25 | ..... |
| 7 | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 16 | ..... |
| 8 | 24 | ..... | 4 | ..... | 5 | ..... | ..... | ..... | 33 | ..... |
| 9 | 41 | ..... | 56 | ..... | ..... | ..... | ..... | ..... | 97 | ..... |
| 10 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 9 | ..... |
| 11 | 31 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 31 | ..... |
| 12 | 21 | ..... | ..... | ..... | ..... | ..... | 1 | ..... | 22 | ..... |
| 13 | 13 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 13 | ..... |
| 14 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 9 | ..... |
| 15 | 1 | ..... | 15 | ..... | ..... | ..... | 1 | ..... | 17 | ..... |
| 16 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 9 | ..... |
| 17 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 7 | ..... |
| 18 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 | ..... |
| 19 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4 | ..... |
| 20 | 11 | ..... | 4 | ..... | ..... | ..... | ..... | ..... | 15 | ..... |
| 21 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 22 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 23 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Tot | 342 | ..... | 121 | ..... | 43 | ..... | 65 | ..... | 571 | ..... |
| Av | 17 | ..... | 15 | ..... | 7 | ..... | 11 | ..... | 29 | ..... |
| 1 | ..... | 5 | ..... | 2 | ..... | ..... | ..... | ..... | ..... | 7 |
| 2 | ..... | 118 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 118 |
| 3 | ..... | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 9 |
| 4 | ..... | 110 | ..... | 1 | ..... | ..... | ..... | ..... | ..... | 111 |
| 5 | ..... | α 21 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | α 21 |
| Tot ..... | ..... | 263 | ..... | 3 | ..... | ..... | ..... | ..... | ..... | 266 |
| Av ..... | ..... | 53 | ..... | 2 | ..... | ..... | ..... | ..... | ..... | 53 |
| 1 | 4 | 2 | 8 | 2 | 1 | 3 | ..... | ..... | 13 | 7 |
| 2 | 4 | 2 | 3 | ..... | 1 | ..... | ..... | ..... | 8 | 2 |
| 3 | 22 | 28 | 45 | 14 | 14 | 12 | 144 | ..... | 225 | 54 |
| 4 | 16 | 10 | 6 | 3 | 10 | 18 | 4 | 14 | 36 | 45 |
| 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 6 | ..... | 15 | 1 | 2 | ..... | ..... | ..... | ..... | b 1 | b 17 |
| Tot | 46 | 57 | 63 | 21 | 26 | 33 | 148 | 14 | 283 | 125 |
| Av | 12 | 11 | 13 | 5 | 7 | 11 | 74 | 14 | 57 | 25 |
| Col | 388 | 320 | 184 | 24 | 69 | 33 | 213 | 14 | 854 | 391 |
| All | 388 | 320 | 208 | 24 | 69 | 33 | 1 641 | 130 | 2 306 | 507 |

α Conferred by Columbia. b Conferred by University of the State of New York on students recommended by faculty.

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[illegible]

TABLE 2—STATISTICS OF COLLEGES

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| DEGREES CONFERRED DURING YEAR | | | | | | | | | | No. |
|-------------------------------|-------|-------------------|-------|--------|-------|------------|-------|-------|-------|------|
| M. A. | | D. D. OR S. T. D. | | LL. D. | | ALL OTHERS | | TOTAL | | |
| Men | Women | Men | Women | Men | Women | Men | Women | Men | Women | |
| 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | |
| | | 2 | | 2 | | 1 | | a | a | 1 |
| 3 | | 4 | | 3 | | 1 | | 8 | | 2 |
| 5 | | 2 | | 4 | | 1 | | 13 | | 3 |
| | | 4 | | 2 | | | | 12 | | 4 |
| | | 2 | | 2 | | | | 6 | | 5 |
| | | 2 | | 1 | | | | 3 | | 6 |
| | | | | 1 | | | | 1 | | 7 |
| | | | | | | | | | | 8 |
| | | | | | | | | | | 9 |
| | | | | | | | | | | 10 |
| 1 | | | | 2 | | 1 | | 4 | | 11 |
| | | | | | | | | | | 12 |
| | | | | | | | | | | 13 |
| | | | | | | | | | | 14 |
| | | | | | | | | | | 15 |
| | | | | | | | | | | 16 |
| | | | | | | | | | | 17 |
| | | | | | | | | | | 18 |
| 2 | | | | | | | | 2 | | 19 |
| | | | | | | | | | | 20 |
| | | | | | | | | | | 21 |
| | | | | | | | | | | 22 |
| | | | | | | | | | | 23 |
| 11 | | 14 | | 15 | | 4 | | 49 | | Tot. |
| 3 | | 3 | | 2 | | 1 | | 6 | | Av. |
| | | | | | | | | | | |
| | | | | | | | | | | 1 |
| | | | | | | | | | | 2 |
| | | | | | | | | | | 3 |
| | | | | | | | | | | 4 |
| | | | | | | | | | | 5 |
| | | | | | | | | | | Tot. |
| | | | | | | | | | | Av. |
| | | 1 | | 1 | | | | 2 | | 1 |
| | | 2 | | 1 | | 1 | 1 | 4 | 1 | 2 |
| | | 4 | | 2 | | 2 | | 8 | | 3 |
| | | | | | | | | | | 4 |
| | | | | | | | | | | 5 |
| | | | | | | | | | | 6 |
| | | 7 | | 4 | | 3 | 1 | 14 | 1 | Tot. |
| | | 2 | | 1 | | 2 | 1 | 5 | 1 | Av. |
| 11 | | 21 | | 19 | | 7 | 1 | 63 | 1 | Col. |
| 12 | | 21 | | 21 | | 17 | 2 | 76 | 2 | All |

a Reported for university in table 1.

| No. | LIBRARY | | SUMMARY | | |
|-------------|-----------|-----------|-----------------|-----------------|----------------|
| | Volumes | Pamphlets | USED BY | | |
| | | | Grounds | Buildings | Furniture |
| | 110 | 111 | 112 | 113 | 114 |
| 1 Columb | 1 | | | | |
| 2 Union. | 2 | | | | |
| 3 Hamilt | 3 | | | | |
| 4 Hobart | 4 | | | | |
| 5 N. Y. u | 5 | | | | |
| 6 Colgate | 6 | | | | |
| 7 St John | 7 | | | | |
| 8 Roches | 8 | | | | |
| 9 C. C. N. | 9 | | | | |
| 10 St Steph | 10 | | | | |
| 11 St Fran | 11 | | | | |
| 12 Manhat | 12 | | | | |
| 13 Robert | 13 | | | | |
| 14 Syrian | 14 | | | | |
| 15 Polytec | 15 | | | | |
| 16 St John | 16 | | | | |
| 17 St Bona | 17 | | | | |
| 18 Canislu | 18 | | | | |
| 19 Niagara | 19 | | | | |
| 20 St Fran | 20 | | | | |
| 21 Macken | 21 | | | | |
| 22 China. | 22 | | | | |
| 23 Holy A | 23 | | | | |
| Tot..... | 658 229 | 123 220 | \$5 990 305 82 | \$8 710 078 17 | \$425 178 13 |
| Av | 29 920 | 9 478 | \$260 448 08 | \$378 699 05 | \$18 486 01 |
| 1 Elmira | 1 | | | | |
| 2 Vassar | 2 | | | | |
| 3 Wells. | 3 | | | | |
| 4 N. C. O. | 4 | | | | |
| 5 Barnar | 5 | | | | |
| Tot..... | 51 766 | 2 500 | \$1 187 824 24 | \$2 347 865 44 | \$145 218 49 |
| Av | 10 353 | 625 | \$237 564 85 | \$469 473 09 | \$29 043 70 |
| 1 St Law | 1 | | | | |
| 2 Alfred. | 2 | | | | |
| 3 Cornell | 3 | | | | |
| 4 Syracu | 4 | | | | |
| 5 Keuka. | 5 | | | | |
| 6 Adelph | 6 | | | | |
| Tot..... | 275 766 | 64 827 | \$468 068 91 | \$2 775 823 67 | \$121 786 43 |
| Av | 45 961 | 12 965 | \$78 011 49 | \$462 637 28 | \$24 357 29 |
| Col | 985 761 | 190 547 | \$7 646 198 96 | \$13 833 267 28 | \$692 183 05 |
| All | 1 702 319 | 430 787 | \$10 491 976 80 | \$24 321 873 99 | \$1 120 930 50 |

α Used by all departments except law and medical. β Including pamphlets. γ Used also by theological department. δ Used also by medical, pharmacy and preparatory departments.
 ε Taken from last year. ζ Used also by academic department. η Used also by theological and academic departments. θ All except law library. ι Used by all departments except veterinary and medical colleges. j Building valued at \$60,000 in course of erection. k Used by all departments except law, veterinary and medical colleges. l Including apparatus and museum. m Including textbooks.

TABLE 2—STATISTICS OF COLLEGES

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OF PROPERTY

COLLEGE

| Apparatus | Library | Museum | Total | No. |
|----------------|----------------|----------------|------------------|------|
| 115 | 116 | 117 | 118 | |
| a \$185 000 .. | a \$420 000 .. | a \$225 000 .. | a \$6 748 750 .. | 1 |
| 25 500 .. | 88 000 .. | 25 000 .. | 593 700 .. | 2 |
| 50 000 .. | 60 000 .. | 10 000 .. | 455 000 .. | 3 |
| 3 000 .. | 45 000 .. | 10 000 .. | 230 257 25 | 4 |
| ? | 40 841 05 | ? | 1 697 670 53 | 5 |
| c 16 000 .. | c 49 000 .. | c 21 000 .. | c 700 000 .. | 6 |
| 4 400 .. | 63 200 .. | 3 500 .. | 917 900 .. | 7 |
| 16 303 23 | 58 732 40 | 48 755 45 | 528 243 62 | 8 |
| 41 000 .. | 69 000 .. | 10 000 .. | 791 000 .. | 9 |
| 1 000 .. | 20 000 .. | 500 .. | 232 500 .. | 10 |
| 5 600 .. | 41 200 .. | 3 500 .. | 813 237 .. | 11 |
| 8 235 52 | 17 488 30 | 14 870 .. | 694 034 75 | 12 |
| 6 800 .. | 4 500 .. | 3 500 .. | 264 666 .. | 13 |
| d 25 750 .. | d 10 000 .. | d 15 000 .. | d 296 750 .. | 14 |
| 12 000 .. | 15 000 .. | 2 915 .. | 370 415 .. | 15 |
| 1 600 .. | 2 000 .. | 300 .. | 248 900 .. | 16 |
| 1 300 .. | 20 000 .. | 4 700 .. | 251 500 .. | 17 |
| 6 260 .. | 22 445 15 | 2 900 .. | 348 656 40 | 18 |
| 12 000 .. | 17 000 .. | 2 500 .. | 196 500 .. | 19 |
| 1 500 .. | 10 200 .. | 215 .. | 183 715 .. | 20 |
| 1 200 .. | 1 500 .. | 4 000 .. | 154 760 .. | 21 |
| e 345 .. | ----- | ----- | e 13 607 66 | 22 |
| 165 50 | 4 911 .. | 80 .. | 272 021 50 | 23 |
| \$374 959 25 | \$1 030 027 90 | \$408 235 45 | \$16 938 784 71 | Tot. |
| \$17 043 60 | \$46 819 45 | \$19 439 78 | \$736 468 90 | Av. |
| \$25 000 .. | \$5 100 .. | \$6 000 .. | \$228 100 .. | 1 |
| 48 793 38 | 47 525 45 | 75 792 15 | 1 328 476 42 | 2 |
| 14 046 40 | 15 701 38 | 3 000 .. | 198 066 27 | 3 |
| n 7 500 .. | 10 000 .. | ? | 1 467 500 .. | 4 |
| 7 592 .. | 1 200 .. | 1 000 .. | 726 516 24 | 5 |
| \$102 931 78 | \$79 526 83 | \$85 792 15 | \$3 948 658 93 | Tot. |
| \$20 586 36 | \$15 905 37 | \$21 448 04 | \$789 731 79 | Av. |
| \$2 000 .. | c \$15 000 .. | \$8 000 .. | \$95 000 .. | 1 |
| 20 000 .. | g 18 500 .. | g 12 000 .. | 141 500 .. | 2 |
| ? | 469 064 60 | i o 714 906 69 | 2 886 644 53 | 3 |
| 87 000 .. | 87 500 .. | 43 500 .. | 1 258 000 .. | 4 |
| f 500 .. | f 1 400 .. | f 250 .. | f 111 150 .. | 5 |
| 9 528 94 | 4 538 73 | ----- | 367 073 44 | 6 |
| \$119 028 94 | \$596 003 33 | \$778 656 69 | \$4 859 367 97 | Tot. |
| \$23 805 79 | \$99 333 89 | \$155 731 84 | \$809 894 66 | Av. |
| \$596 919 97 | \$1 705 558 06 | \$1 272 684 29 | \$25 746 811 61 | Col. |
| \$926 830 22 | \$2 929 427 75 | \$1 405 396 08 | \$41 196 435 34 | All |

n Including museum. o Including furniture and apparatus.

| | | SUMMARY OF | | | |
|--------------|----|---|----------------------------|---------------------------------|---|
| | | INVESTMENTS OWNED | | | |
| No. | | Real estate owned but not used by college | Real estate mort- gages | Corporation bonds and stocks | Notes and accounts payable to college |
| | | 119 | 120 | 121 | 122 |
| 120 Columbia | 1 | a \$11 541 095 32 | a \$335 500 .. | a \$954 292 71 | a \$93 864 60 |
| 2 Union | 2 | 150 000 .. | 352 140 75 | 54 650 .. | 1 106 17 |
| 3 Hamilton | 3 | 23 796 65 | 314 513 .. | 96 633 35 | 900 .. |
| 4 Robert | 4 | 4 000 .. | 316 016 31 | 5 000 .. | 35 000 .. |
| 5 N. Y. U. | 5 | 1 262 505 24 | 125 368 75 | b 744 854 .. | 2 687 73 |
| 6 College | 6 | 29 972 65 | 48 900 .. | 1 533 568 86 | 5 213 70 |
| 7 St John | 7 | 20 100 .. | 417 237 66 | 262 240 .. | 4 448 18 |
| 8 Rocham | 8 | 25 768 81 | 29 000 .. | 2 000 .. | 3 000 .. |
| 9 O. C. M. | 9 | 36 784 93 | 43 000 .. | 1 300 .. | 13 924 32 |
| 10 St Stepi | 10 | 70 800 .. | 144 350 .. | 96 000 .. | 4 269 67 |
| 11 St Fran | 11 | 1 500 .. | 81 857 50 | 257 949 04 | 3 200 .. |
| 12 Manhat | 12 | 60 000 .. | 25 000 .. | 80 000 .. | 2 600 .. |
| 13 Robert | 13 | 6 000 .. | .. | .. | 4 422 60 |
| 14 Syracu | 14 | .. | .. | .. | 4 000 .. |
| 15 Polytec | 15 | .. | .. | .. | 125 .. |
| 16 St John | 16 | .. | .. | .. | 1 050 .. |
| 17 St Bonn | 17 | .. | .. | .. | 11 093 26 |
| 18 Canisus | 18 | .. | .. | .. | .. |
| 19 Niagara | 19 | .. | .. | .. | .. |
| 20 St Fran | 20 | .. | .. | .. | .. |
| 21 Macken | 21 | .. | .. | .. | .. |
| 22 China | 22 | 25 257 61 | .. | 86 733 24 | .. |
| 23 Holy A | 23 | 86 800 .. | .. | .. | .. |
| Tot..... | | \$13 347 381 21 | \$2 252 883 97 | \$4 125 221 20 | \$193 056 18 |
| Av..... | | \$834 211 33 | \$178 298 77 | \$317 324 71 | \$10 725 34 |
| 1 Elmira | 1 | .. | \$68 275 .. | .. | \$2 000 .. |
| 2 Vassar | 2 | \$54 250 .. | 480 551 80 | \$420 151 98 | 4 248 94 |
| 3 Wells | 3 | .. | .. | 200 000 .. | 2 300 56 |
| 4 N. C. O. | 4 | .. | .. | .. | .. |
| 5 Barnab | 5 | .. | .. | 143 994 90 | 14 000 .. |
| Tot..... | | \$54 250 .. | \$548 826 80 | \$764 146 88 | \$22 549 50 |
| Av..... | | \$54 250 .. | \$274 413 40 | \$254 715 63 | \$5 647 38 |
| 1 St Law | 1 | .. | \$144 009 .. | \$28 000 .. | \$16 615 08 |
| 2 Alfred | 2 | \$7 014 98 | 20 205 41 | 10 000 .. | 14 803 71 |
| 3 Cornell | 3 | 884 049 19 | 2 330 625 50 | 3 483 617 .. | 132 857 41 |
| 4 Syracu | 4 | 1 151 200 .. | 83 253 69 | 63 281 .. | 134 609 60 |
| 5 Keuka | 5 | .. | 21 000 .. | 8 000 .. | 44 034 .. |
| 6 Adolph | 6 | .. | .. | 1 333 33 | 3 208 26 |
| Tot..... | | \$2 042 264 17 | \$2 599 093 60 | \$3 594 281 33 | \$346 128 06 |
| Average. | | \$680 754 72 | \$519 818 72 | \$599 038 56 | \$57 688 01 |
| Col..... | | \$15 443 895 38 | \$5 400 804 37 | \$8 483 599 41 | \$561 733 74 |
| All..... | | \$16 626 995 27 | \$8 318 448 74 | \$10 855 096 58 | \$639 124 91 |

a All investments owned by the university. Under the Lombard gift the university holds property valued at \$1,100,000 which is also mortgaged for the same amount during Mr Lombard's lifetime.

b Including real estate mortgages and government securities.

TABLE 2—STATISTICS OF COLLEGES

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| PROPERTY, continued | | | | No. |
|-------------------------|----------------|-------------------|------------------------|-------|
| BY COLLEGE | | | | |
| Cash on hand or in bank | Other property | Total | Total college property | |
| 123 | 124 | 125 | 126 | |
| a \$656 317 61 | ----- | a \$13 581 070 24 | c \$20 329 820 24 | 1 |
| 324 15 | ----- | 558 221 07 | 1 151 921 07 | 2 |
| 9 995 80 | \$60 482 34 | 506 321 14 | 961 321 14 | 3 |
| 21 857 23 | 70 000 .. | 451 873 54 | 682 130 79 | 4 |
| ----- | ----- | 2 007 359 24 | 3 705 029 77 | 5 |
| 26 604 65 | ----- | 1 718 202 64 | d 2 418 202 64 | 6 |
| 13 647 14 | ----- | 87 880 84 | 1 005 760 84 | 7 |
| 14 105 04 | 18 850 .. | 737 649 69 | 1 285 893 31 | 8 |
| 15 050 .. | 1 000 .. | 45 050 .. | 836 050 .. | 9 |
| 26 476 47 | ----- | 110 412 85 | 342 912 35 | 10 |
| 5 538 45 | ----- | 100 638 45 | 913 875 45 | 11 |
| 375 93 | ----- | 14 300 25 | 708 335 .. | 12 |
| 16 755 .. | ----- | 261 605 .. | 466 271 .. | 13 |
| 19 622 11 | ----- | 350 128 85 | e 646 878 65 | 14 |
| 2 070 92 | f 1 200 .. | 122 540 59 | 492 955 59 | 15 |
| 500 .. | ----- | 8 700 .. | 252 600 .. | 16 |
| 1 200 .. | ----- | 3 800 .. | 255 300 .. | 17 |
| 5 313 31 | ----- | 15 735 91 | 359 392 31 | 18 |
| 2 000 .. | ----- | 6 000 .. | 202 500 .. | 19 |
| 1 202 46 | 19 651 76 | 20 979 22 | 204 694 22 | 20 |
| 220 31 | 5 500 00 | 6 770 31 | 161 530 31 | 21 |
| 1 993 30 | ----- | 135 077 41 | 138 685 07 | 22 |
| ----- | ----- | 56 300 .. | f 358 321 50 | 23 |
| \$831 369 88 | \$171 684 10 | \$20 921 596 54 | \$37 860 381 25 | Tot. |
| \$39 589 04 | \$24 526 30 | \$909 634 63 | \$1 646 103 52 | Av. |
| ----- | ----- | \$70 275 .. | \$298 375 .. | 1 |
| \$39 920 83 | \$39 064 .. | 1 038 187 65 | 2 366 664 07 | 2 |
| 6 059 15 | ----- | 208 359 71 | 406 425 98 | 3 |
| ----- | ----- | ----- | 1 467 500 .. | 4 |
| 1 641 57 | 60 000 .. | 219 636 47 | 946 152 71 | 5 |
| \$47 621 65 | \$99 064 .. | \$1 536 458 83 | \$5 485 117 76 | Tot. |
| \$15 873 88 | \$49 532 .. | \$384 114 71 | \$1 097 023 55 | Av. |
| ----- | ----- | ----- | ----- | ----- |
| \$1 414 09 | \$15 245 39 | \$205 283 56 | \$300 283 56 | 1 |
| 2 988 32 | 189 460 .. | 244 472 42 | 385 972 42 | 2 |
| 344 374 51 | 50 000 .. | 7 225 523 61 | g 10 112 168 14 | 3 |
| 22 151 38 | ----- | 1 454 495 67 | 2 712 495 67 | 4 |
| 550 .. | 97 500 .. | 171 084 .. | f 282 234 .. | 5 |
| 1 225 16 | 831 41 | 6 598 16 | 373 671 60 | 6 |
| \$372 703 46 | \$353 036 80 | \$9 307 457 42 | \$14 166 825 39 | Tot. |
| \$62 117 24 | \$70 607 36 | \$1 551 242 90 | \$2 361 137 57 | Av. |
| \$1 251 694 99 | \$623 784 90 | \$31 765 512 79 | \$57 512 324 40 | Col. |
| \$1 771 016 94 | \$3 691 273 05 | \$41 901 955 49 | \$83 098 390 83 | All |

c Used by all departments except law and medical. d Used also by theological department. e Used also by medical, pharmacy and preparatory departments. f Used also by academic department. g Value of property of all departments except veterinary and medical colleges and the law school building.

| No. | SUMMARY OF PROPERTY, <i>concluded</i> | | FINANCIAL | |
|----------|---------------------------------------|--------------------------|--------------------------|---------------------|
| | Debts at end of year | Net property | RECEIPTS DURING YEAR | |
| | | | Tuition fees for college | Fees for professors |
| | 127 | 128 | 129 | 130 |
| 1 | <i>a</i> \$5 905 740 .. | <i>b</i> \$14 424 080 24 | <i>b</i> \$182 605 16 | ..... |
| 2 | 49 000 .. | 1 102 921 07 | 3 148 83 | ..... |
| 3 | ? | 1 961 321 14 | <i>g</i> 9 563 .. | ..... |
| 4 | ..... | 682 130 79 | 5 686 31 | ..... |
| 5 | 1 399 000 .. | 2 306 029 77 | 12 975 .. | ..... |
| 6 | ..... | <i>c</i> 2 418 202 64 | 7 758 .. | ..... |
| 7 | 157 813 99 | 847 946 85 | 13 920 .. | ..... |
| 8 | ..... | 1 265 893 31 | 8 465 19 | ..... |
| 9 | ..... | 836 050 .. | ..... | ..... |
| 10 | 4 500 .. | 338 412 35 | ..... | ..... |
| 11 | 259 927 95 | 653 947 50 | 26 987 85 | ..... |
| 12 | 16 314 61 | 692 020 89 | 110 828 67 | ..... |
| 13 | ..... | 466 271 .. | 16 000 .. | ..... |
| 14 | ..... | <i>d</i> 646 878 65 | 1 355 94 | ..... |
| 15 | 155 000 .. | 337 955 59 | 15 075 .. | ..... |
| 16 | 8 416 .. | 244 184 .. | 17 800 .. | ..... |
| 17 | ..... | 255 800 .. | 6 200 .. | ..... |
| 18 | 25 983 33 | 333 408 98 | 9 600 .. | ..... |
| 19 | 12 000 .. | 190 500 .. | 8 000 .. | \$300 .. |
| 20 | 47 403 83 | 157 290 39 | 9 086 .. | ..... |
| 21 | 8 286 84 | 153 243 47 | 1 375 .. | ..... |
| 22 | ..... | 138 685 07 | ..... | ..... |
| 23 | 50 000 .. | <i>e</i> 308 321 50 | 3 000 .. | ..... |
| Tot..... | \$8 099 386 55 | \$29 760 994 70 | \$369 344 81 | \$300 .. |
| Av..... | \$578 527 61 | \$1 293 956 29 | \$18 467 24 | \$300 .. |
| 1 | \$50 000 .. | \$248 375 .. | \$6 000 .. | ..... |
| 2 | 11 997 07 | 2 354 667 .. | 66 050 39 | ..... |
| 3 | ..... | 406 425 93 | 9 100 .. | \$22 350 .. |
| 4 | ..... | 1 467 500 .. | ..... | ..... |
| 5 | \$31 565 43 | 914 587 28 | 24 601 42 | ..... |
| Tot..... | \$93 562 50 | \$5 391 555 26 | \$105 751 81 | \$22 350 .. |
| Av..... | \$31 187 50 | \$1 078 311 05 | \$26 437 95 | \$22 350 .. |
| 1 | ? | \$300 283 56 | \$2 836 75 | ..... |
| 2 | \$43 429 80 | 342 542 62 | 2 362 40 | ..... |
| 3 | ..... | <i>f</i> 10 112 168 14 | <i>h</i> 155 002 98 | ..... |
| 4 | 617 500 .. | 2 094 995 67 | 49 550 27 | ..... |
| 5 | 6 300 .. | <i>e</i> 275 934 .. | 204 97 | ..... |
| 6 | 144 508 52 | 229 163 08 | 12 518 56 | 566 67 |
| Tot..... | \$811 738 32 | \$13 355 087 07 | \$222 475 93 | \$766 67 |
| Av..... | \$202 934 58 | \$2 225 847 85 | \$37 079 32 | \$383 34 |
| Col..... | \$9 004 687 37 | \$48 507 637 03 | \$697 572 55 | \$23 416 67 |
| All..... | \$10 051 464 09 | \$73 050 218 .. | \$1 618 330 88 | \$30 641 29 |

a Debt of university. *b* Including all departments except law and medical. *c* Including theological department. *d* Including medical, pharmacy and preparatory departments. *e* Including academic department. *f* Including all departments except veterinary and medical college property and law school building. *g* Including room rent. *h* Including all departments except veterinary college.

TABLE 2—STATISTICS OF COLLEGES

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| STATEMENT | | | | | No. |
|-----------|-------------|------------------------------|-----------------------|--------------------|-----|
| ING YEAR | | | | | |
| Room rent | Board | Other receipts from students | Income of investments | Gifts and bequests | |
| 131 | 132 | 133 | 134 | 135 | |
| | | 5 \$9 182 47 | \$45 349 82 | \$564 461 60 | 1 |
| \$702 .. | | 1 260 50 | 18 401 31 | 21 395 67 | 2 |
| | | | 25 397 .. | 10 686 .. | 3 |
| 2 677 52 | | 726 99 | 19 296 40 | 44 065 30 | 4 |
| 86 50 | | 2 848 75 | 38 010 25 | 312 605 .. | 5 |
| 2 200 .. | \$33 963 .. | 27 320 71 | 40 613 69 | 17 734 59 | 6 |
| | | | 1 307 66 | 267 88 | 7 |
| | | | 33 367 87 | 400 .. | 8 |
| | | | 1 981 50 | | 9 |
| | 12 048 .. | | 6 861 16 | 6 551 .. | 10 |
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| No. | FINANCIAL STATE- | | | | |
|----------|--|------------------|------------------------|------------------|-------------|
| | RECEIPTS DURING YEAR, <i>concluded</i> | | EXPENDITURES | | |
| | All other sources | Total | ADDITIONS, IMPROVEMENT | | |
| | | | Grounds | Buildings | Furniture |
| | 136 | 137 | 138 | 139 | 140 |
| 1 | \$4 485 508 50 | b \$5 287 107 55 | | b f \$179 511 97 | ? |
| 2 | 71 335 60 | 116 243 91 | e \$1 917 48 | 1 493 99 | |
| 3 | 104 .. | 45 750 .. | 2 000 .. | | \$1 000 .. |
| 4 | 8 892 75 | 78 668 75 | | 1 024 73 | 75 45 |
| 5 | 84 680 25 | 453 796 77 | 13 468 50 | 187 464 98 | |
| 6 | 4 302 77 | 70 495 55 | 965 35 | 2 674 85 | |
| 7 | 32 906 33 | 111 885 68 | | 2 934 27 | 226 44 |
| 8 | 2 052 74 | 44 285 89 | | 666 20 | |
| 9 | 187 500 .. | 189 481 50 | | 1 500 .. | 1 284 49 |
| 10 | 307 50 | 25 767 66 | | 717 82 | |
| 11 | 397 55 | 87 249 31 | | 4 219 97 | 937 54 |
| 12 | 4 867 85 | 39 366 91 | ? | ? | ? |
| 13 | 895 97 | 49 118 06 | | | |
| 14 | 3 373 40 | 14 796 47 | 1 017 60 | 1 111 52 | 1 100 .. |
| 15 | 5 610 11 | 25 151 86 | | ? | ? |
| 16 | f 15 340 .. | 33 140 .. | 100 .. | 800 .. | 200 .. |
| 17 | 7 000 .. | 22 700 .. | f 500 .. | g | 200 .. |
| 18 | 2 673 10 | 47 064 68 | | 220 .. | 1 768 46 |
| 19 | 7 000 .. | 29 200 .. | 1 000 .. | 4 000 .. | 600 .. |
| 20 | 27 183 53 | 45 729 39 | | 1 808 92 | |
| 21 | 928 .. | 8 991 .. | | 119 .. | 36 .. |
| 22 | 1 866 66 | 5 821 94 | 867 56 | 89 48 | 22 .. |
| 23 | | e 9 200 .. | | | |
| Tot..... | \$4 954 727 61 | \$6 791 012 69 | \$21 836 49 | \$390 357 73 | \$6 450 38 |
| Av..... | \$225 214 89 | \$295 261 42 | \$2 426 28 | \$22 962 22 | \$537 53 |
| 1 | | \$22 670 .. | | \$1 000 .. | \$100 .. |
| 2 | \$36 460 95 | 342 865 51 | \$13 358 16 | 28 166 04 | 6 137 82 |
| 3 | 6 119 40 | 56 097 46 | ? | h 2 332 86 | 548 25 |
| 4 | 175 000 .. | 175 000 .. | 600 .. | 9 300 .. | 500 .. |
| 5 | 72 469 83 | 318 167 22 | 2 199 24 | 13 318 75 | 1 427 54 |
| Tot..... | \$290 050 18 | \$914 800 19 | \$16 157 40 | \$54 117 65 | \$8 713 61 |
| Av..... | \$72 512 55 | \$182 960 04 | \$5 385 80 | \$10 823 53 | \$1 742 72 |
| 1 | \$4 295 99 | \$26 913 80 | | \$410 76 | |
| 2 | 25 424 52 | 46 789 77 | \$1 464 22 | 6 514 90 | \$676 45 |
| 3 | a 40 848 72 | d 622 156 08 | 68 445 38 | | |
| 4 | 47 152 48 | 256 542 84 | 633 05 | 50 661 32 | |
| 5 | 3 548 74 | 6 482 71 | ? | 1 172 45 | 27 .. |
| 6 | 19 946 36 | 35 170 59 | | | 205 54 |
| Tot..... | \$141 216 81 | \$994 055 79 | \$70 542 65 | \$58 759 43 | \$908 99 |
| Av..... | \$23 536 14 | \$165 677 63 | \$23 514 23 | \$14 689 86 | \$303 .. |
| Col..... | \$5 385 994 60 | \$8 699 868 67 | \$108 536 54 | \$503 234 81 | \$16 072 98 |
| All..... | \$5 736 920 .. | \$10 881 234 06 | \$112 429 20 | \$574 967 35 | \$26 708 63 |

a Including all departments except veterinary college. b Including all departments except law and medical. c Including academic department. d Including all departments except law, medical and veterinary college. The law and medical receipts being estimated as a whole are deducted from the total only. e Care of grounds and buildings. f All improvement and repairs. g Building in course of erection to cost \$60,000. h Including grounds.

MENT, continued

DURING YEAR

AND REPAIRS

| Apparatus | Library | Museum | Salaries for instruction | Fees to professors | No. | |
|-------------|-------------|------------|--------------------------|--------------------|------|-----------|
| 141 | 142 | 143 | 144 | 145 | | |
| ? | ? | ? | \$364 292 43 | ..... | 1 | a.... 1 |
| ..... | \$1 363 92 | ..... | 35 107 50 | ..... | 2 | 2 |
| ..... | 1 000 .. | \$100 .. | 31 395 .. | ..... | 3 | a.... 3 |
| \$335 28 | 763 27 | ..... | 17 700 .. | ..... | 4 | 4 |
| ..... | 1 801 60 | ..... | 35 289 99 | ..... | 5 | 5 |
| ..... | 457 10 | ..... | 26 087 33 | ..... | 6 | 6 |
| 1 000 .. | 2 209 50 | 20 .. | 1 821 50 | ..... | 7 | F.. 7 |
| 585 51 | 918 54 | ..... | 31 358 02 | ..... | 8 | W... 8 |
| 2 703 49 | 63 53 | ..... | 151 660 94 | ..... | 9 | K... 9 |
| ..... | 1 200 .. | ..... | 9 912 50 | ..... | 10 | ens.. 10 |
| 226 50 | 143 32 | ? 100 .. | 4 822 .. | ..... | 11 | , X'r. 11 |
| 175 .. | ..... | ..... | 4 218 25 | ..... | 12 | an... 12 |
| ..... | 776 55 | ? | 21 642 95 | ..... | 13 | 13 |
| 83 50 | ? | ? | 6 536 70 | ..... | 14 | 14 |
| ? | 400 .. | 100 .. | 29 700 .. | ..... | 15 | mic.. 15 |
| 200 .. | 80 .. | 12 .. | 200 .. | ..... | 16 | 1B.. 16 |
| 40 .. | 1 245 08 | 200 .. | \$7 000 .. | ..... | 17 | ren.. 17 |
| 180 .. | 100 .. | 100 .. | 1 400 .. | ..... | 18 | 18 |
| 4 000 .. | 200 .. | 50 .. | ..... | \$300 .. | 19 | 19 |
| ..... | 7 24 | ..... | 7 517 .. | 1 580 .. | 20 | ls ... 20 |
| 105 .. | c 329 .. | c 80 .. | 3 768 82 | ..... | 21 | le.... 21 |
| c 80 .. | ..... | ..... | ..... | ..... | 22 | 22 |
| ..... | ..... | ..... | ..... | ..... | 23 | gels 23 |
| \$9 714 28 | \$13 008 65 | \$762 .. | \$791 430 93 | \$1 880 .. | Tot. | |
| \$747 25 | \$722 70 | \$84 67 | \$39 571 55 | \$940 .. | Av. | |
| ..... | \$100 .. | \$1 000 .. | \$12 000 .. | ..... | 1 | 1 |
| \$1 553 41 | 4 436 94 | 1 344 51 | 77 352 98 | ..... | 2 | 2 |
| 803 16 | 852 99 | ..... | 18 200 80 | ..... | 3 | 3 |
| 600 .. | 2 000 .. | 2 000 .. | 128 400 .. | ..... | 4 | U. Y. 4 |
| 830 99 | ..... | ..... | 39 818 67 | ..... | 5 | 5 |
| \$3 787 56 | \$7 389 93 | \$4 344 51 | \$275 772 45 | ..... | Tot. | |
| \$946 89 | \$1 847 48 | \$1 448 17 | \$55 154 49 | ..... | Av. | |
| ..... | \$1 055 53 | ..... | \$10 100 .. | ..... | 1 | ncc. 1 |
| \$76 08 | 437 26 | ..... | 7 754 65 | \$200 .. | 2 | 2 |
| 1 215 33 | ..... | ..... | 361 069 92 | ..... | 3 | 3 |
| ..... | 1 152 33 | ..... | 72 545 74 | ..... | 4 | 4 |
| 9 755 74 | 133 45 | ..... | 3 480 .. | ..... | 5 | 5 |
| ..... | 356 03 | ..... | 11 255 10 | 566 67 | 6 | 6 |
| 388 23 | ..... | ..... | ..... | ..... | Tot. | |
| \$11 435 48 | \$3 134 60 | ..... | \$466 205 41 | \$766 67 | Av. | |
| \$2 858 87 | \$626 92 | ..... | \$77 700 90 | \$383 34 | Col. | |
| \$24 937 32 | \$23 533 18 | \$5 106 51 | \$1 533 408 79 | \$2 646 67 | All | |
| \$66 598 90 | \$53 081 71 | \$7 705 05 | \$2 527 376 88 | \$39 351 45 | | |

† Maintenance of professors.

| FINANCIAL | | | | | |
|-------------------|--|----------------------------------|------------------------------|-----------------|-------------|
| EXPENDITURES DUR- | | | | | |
| No. | Salaries paid other officers and employees | Prizes, scholarships, etc. | Given or lent to students | Fuel and lights | Insurance |
| | 146 | 147 | 148 | 149 | 150 |
| 1 Columbian | \$133 593 91 | \$32 798 25 | \$820 .. | \$516 258 77 | \$4 778 88 |
| 2 Union .. | 1 475 .. | 3 714 .. | d..... | 1 372 17 | 60 .. |
| 3 Hamilton | 3 457 .. | 2 400 .. | ..... | 1 150 .. | ..... |
| 4 Robert .. | 5 054 15 | 528 11 | 1 398 51 | 1 212 48 | 280 .. |
| 5 N. Y. U. | 21 860 .. | 4 275 .. | 1 902 35 | 4 725 74 | 529 70 |
| 6 Colgate | 4 990 .. | 7 065 .. | ..... | 1 391 14 | 54 93 |
| 7 St John | 2 035 48 | 1 100 .. | 2 000 .. | 5 695 27 | 631 50 |
| 8 Roches | 2 664 45 | 623 .. | ..... | 1 037 08 | 15 .. |
| 9 C. C. N. | 10 103 13 | 252 .. | ..... | 1 778 79 | 430 01 |
| 10 St Steph | 3 042 64 | ..... | ..... | 1 640 25 | 261 41 |
| 11 St Fran | 6 067 88 | 575 .. | ..... | 8 280 64 | 788 27 |
| 12 Manhat | 5 694 62 | 15 616 .. | ..... | 1 321 08 | ..... |
| 13 Robert .. | ..... | ..... | ..... | ..... | ..... |
| 14 Syrian | 1 557 40 | 5 .. | e..... | 1 850 .. | 41 85 |
| 15 Polytec | 8 600 .. | ..... | ..... | 450 .. | 37 50 |
| 16 St John | 1 600 .. | ..... | ..... | 1 550 .. | 740 .. |
| 17 St Bonn | 4 000 .. | 4 000 .. | 800 .. | 1 788 42 | 357 68 |
| 18 Canisius | 3 133 18 | 670 50 | 4 422 60 | 3 000 .. | 150 .. |
| 19 Niagara | 5 000 .. | 1 500 .. | ..... | 1 429 81 | 246 38 |
| 20 St Fran | 985 .. | 5 194 .. | ..... | 100 .. | 151 .. |
| 21 Mackay | 600 .. | ..... | ..... | 53 60 | ..... |
| 22 China .. | 61 20 | ..... | ..... | a400 .. | a200 .. |
| 23 Holy A | a500 .. | a5 000 .. | ..... | ..... | ..... |
| Tot. | \$324 075 04 | \$73 515 86 | \$10 843 46 | \$56 271 74 | \$9 784 11 |
| Av. | \$10 185 23 | \$4 324 46 | \$1 807 24 | \$2 679 61 | \$543 56 |
| 1 Elmira | \$4 500 .. | \$2 000 .. | ..... | \$1 860 .. | \$623 .. |
| 2 Vassar | 37 308 81 | 11 834 16 | \$2 550 .. | 19 857 51 | 1 786 02 |
| 3 Wells .. | 6 628 15 | ..... | ..... | 1 950 71 | 18 50 |
| 4 N. C. O. | 8 600 .. | ..... | ..... | 4 010 .. | ..... |
| 5 Barnard | 9 355 .. | 2 900 .. | ..... | 5 221 93 | ..... |
| Tot. | \$66 391 46 | \$16 734 16 | \$2 550 .. | \$32 890 15 | \$2 427 52 |
| Av. | \$13 278 29 | \$5 578 05 | \$2 550 .. | \$6 578 03 | \$809 17 |
| 1 St Law | \$450 .. | ..... | \$250 .. | \$237 14 | \$120 .. |
| 2 Alfred .. | 1 228 80 | \$439 50 | 40 .. | 683 63 | 357 19 |
| 3 Cornell | ..... | c24 761 07 | c1 467 78 | c18 806 15 | c252 .. |
| 4 Syracuse | 11 527 89 | 625 .. | 247 50 | 8 817 76 | 2 097 47 |
| 5 Keuka .. | 800 .. | ..... | ..... | ..... | 8 .. |
| 6 Adelphi | 4 429 67 | 30 .. | ..... | 1 692 73 | 480 40 |
| Tot. | \$18 434 36 | \$25 855 57 | \$2 005 28 | \$25 237 41 | \$3 815 06 |
| Av. | \$3 686 87 | \$6 463 89 | \$501 32 | \$5 047 48 | \$552 51 |
| Col. | \$308 900 86 | \$116 105 59 | \$15 398 74 | \$114 399 30 | \$15 526 69 |
| All | \$452 637 79 | \$148 309 83 | \$41 802 49 | \$178 536 34 | \$20 797 46 |

a Including academic department. b Including all departments except law and medical.
 c Including all departments except veterinary college. d Tuitions to the value of \$8624 remitted
 to students. e Tuitions to the value of \$3012 remitted to students. f Including taxes.

STATEMENT, concluded

ING YEAR, concluded

| Interest on debt | Other incidentals | All other purposes | Total | No. |
|------------------|-------------------|--------------------|------------------|----------------------|
| 151 | 152 | 153 | 154 | |
| \$128 713 59 | \$171 924 06 | \$3 575 029 40 | b \$4 607 721 26 | 1 Columbia.... 1 |
| 4 729 79 | 4 331 66 | 60 354 25 | 115 919 76 | 2 Union..... 2 |
| 568 .. | 2 050 16 | 9 699 07 | 52 778 07 | 3 Hamilton.... 3 |
| 44 476 55 | 4 516 15 | 983 38 | 31 385 52 | 4 Hobart..... 4 |
| 6 800 01 | 20 989 86 | 25 634 79 | 339 627 60 | 5 N. Y. U. 5 |
| 14 36 | 18 846 96 | 6 779 78 | 56 326 16 | 6 Colgate..... 6 |
| 2 410 20 | 1 360 54 | 48 547 01 | 98 238 44 | 7 St John's F.. 7 |
| 6 298 48 | 21 722 71 | 5 090 23 | 44 283 35 | 8 Rochester.... 8 |
| 5 858 34 | 288 97 | g 72 788 36 | 189 476 35 | 9 C. C. N. Y. ... 9 |
| 300 80 | 398 50 | 90 836 71 | 34 776 82 | 10 St Stephens.. 10 |
| 580 .. | 100 .. | 38 990 98 | 34 776 82 | 11 St Franc. X'r. 11 |
| 50 .. | 700 .. | 19 089 03 | 41 020 95 | 12 Manhattan... 12 |
| 1 820 .. | 9 000 .. | 2 691 .. | 14 277 77 | 13 Robert..... 13 |
| 560 21 | 219 03 | 6 966 75 | 47 816 94 | 14 Syrian..... 14 |
| a 2 317 50 | 219 03 | 2 800 .. | 6 398 30 | 15 Polytechnic.. 15 |
| \$205 587 83 | \$256 448 60 | 2 345 .. | 21 417 .. | 16 St John's B... 16 |
| \$18 702 52 | \$18 517 76 | 13 653 .. | 29 778 92 | 17 St Bonaven... 17 |
| \$3 500 .. | \$730 .. | 7 000 .. | 35 800 .. | 18 Canisius..... 18 |
| 250 .. | 1 548 18 | 32 415 78 | 45 729 39 | 19 Niagara..... 19 |
| 8 386 44 | 227 301 43 | 1 830 .. | 11 018 21 | 20 St Francis... 20 |
| \$7 136 44 | \$266 989 47 | 520 14 | 5 609 07 | 21 Mackenzie... 21 |
| \$2 378 81 | \$53 399 89 | a 2 000 .. | a 8 996 50 | 22 China..... 22 |
| | | | | 23 Holy Angels 23 |
| \$205 587 83 | \$256 448 60 | \$3 896 216 97 | \$5 968 134 07 | Total |
| \$18 702 52 | \$18 517 76 | \$194 810 85 | \$259 484 09 | Average |
| \$3 500 .. | \$730 .. | \$300 .. | \$27 713 .. | 1 Elmira..... 1 |
| 250 .. | 30 419 86 | 99 221 75 | 335 327 47 | 2 Vassar..... 2 |
| 8 386 44 | 1 548 18 | 16 904 71 | 50 038 31 | 3 Wells..... 3 |
| \$7 136 44 | 7 000 .. | 12 000 .. | 175 000 .. | 4 N. C. C. N. Y. 4 |
| \$2 378 81 | 227 301 43 | 11 778 12 | 317 538 11 | 5 Barnard..... 5 |
| \$7 136 44 | \$266 989 47 | \$140 204 58 | \$905 616 89 | Total |
| \$2 378 81 | \$53 399 89 | \$28 040 92 | \$181 123 38 | Average |
| \$1 600 61 | \$2 151 70 | \$20 624 53 | \$14 851 21 | 1 St Lawrence. 1 |
| 10 444 55 | 566 38 | c 174 888 61 | 43 801 45 | 2 Alfred..... 2 |
| 344 | 93 034 49 | 93 034 49 | A 595 862 51 | 3 Cornell..... 3 |
| 6 451 98 | 2 000 .. | 518 .. | 256 542 84 | 4 Syracuse.... 4 |
| \$18 841 14 | \$4 718 08 | 14 808 39 | 6 482 90 | 5 Keuka..... 5 |
| \$4 710 29 | \$1 572 69 | \$303 854 02 | 42 664 84 | 6 Adelphi..... 6 |
| \$31 515 41 | \$528 166 15 | \$60 770 80 | \$960 205 75 | Total |
| \$289 763 60 | \$590 519 98 | \$4 340 275 57 | \$160 034 29 | Average |
| | | \$7 833 956 71 | | College |
| | | \$9 848 430 76 | | All |

g Including payment of the debt. h Including all departments except law, medical and veterinary college. The law and medical receipts and expenses being estimated as a whole are deducted from the total only.

TABLE 3

[For general explanatory notes see page 191]

STATISTICS OF PROFESSIONAL SCHOOLS

REPORTING TO THE

University of the State of New York

FOR THE

Year ending 30 June 1899

| | | LOCATION |
|---------------------|--|--------------------------|
| No. | NAME | City and county |
| LAW | | |
| | 1 | 2 |
| 1 N. Y. univ. | 1 New York university law school. | New York. |
| 2 Albany. | 2 Union university, Albany law school. | Albany. |
| 3 Columbia. | 3 aColumbia university, faculty of law. | New York. |
| 4 Cornell. | 4 Cornell university, college of law. | Ithaca, Tompkins. |
| 5 Buffalo. | 5 University of Buffalo, Buffalo law school. | Buffalo, Erie. |
| 6 New York. | 6 New York law school. | New York. |
| 7 Syracuse. | 7 Syracuse university, school of law. | Syracuse, Onondaga. |
| MEDICINE | | |
| 1 P. and S. | 1 aColumbia univ., college of physicians and surgeons. | New York. |
| 2 Bellevue. | 2 The university and Bellevue hospital medical college. | New York. |
| 3 Albany. | 3 Union university, Albany medical college. | Albany. |
| 4 Buffalo. | 4 University of Buffalo, medical department. | Buffalo, Erie. |
| 5 L. I. hosp. | 5 Long Island college hospital. | Brooklyn, Kings. |
| 6 Homeop. | 6 New York homeopathic medical college and hospital. | New York. |
| 7 Wom. hosp. | 7 New York medical college and hospital for women. | New York. |
| 8 Wom. in. | 8 bWoman's medical college of the New York infirmary. | New York. |
| 9 Eclectic. | 9 Eclectic medical college. | New York. |
| 10 Syrian. | 10 Syrian protestant college, medical department. | Beirut, Syria. |
| 11 Syracuse. | 11 Syracuse university, college of medicine. | Syracuse, Onondaga. |
| 12 Polyclinic. | 12 New York polyclinic medical school and hospital. | New York. |
| 13 Post grad. | 13 New York post graduate medical school and hospital. | New York. |
| 14 Cornell. | 14 Cornell university medical college. | New York. |
| PHARMACY | | |
| 1 New York. | 1 College of pharmacy of the city of New York. | New York. |
| 2 Syrian. | 2 Syrian protestant college, department of pharmacy. | Beirut, Syria. |
| 3 Albany. | 3 Union university, Albany college of pharmacy. | Albany. |
| 4 Buffalo. | 4 University of Buffalo, college of pharmacy. | Buffalo, Erie. |
| 5 Brooklyn. | 5 Brooklyn college of pharmacy. | Brooklyn, Kings. |
| DENTISTRY | | |
| 1 N. Y. col. | 1 New York college of dentistry. | New York. |
| 2 Buffalo. | 2 University of Buffalo, college of dentistry. | Buffalo, Erie. |
| 3 N. Y. sch. | 3 New York dental school. | New York. |
| OPHTHALMOLOGY | | |
| 1 N. Y. oph. | 1 New York ophthalmic hospital. | New York. |
| VETERINARY | | |
| 1 New York. | 1 New York college of veterinary surgeons. | New York. |
| 2 American. | 2 American veterinary college. | New York. |
| 3 N. Y. state. | 3 New York state veterinary college. | Ithaca, Tompkins. |

a One of the faculties of Columbia university; for fuller information see p. 198.
 closed this year. c For summary of colleges by counties see table 5.

b Permanently

| INCORPORATED | | President of university or college with which this school is connected | No. | |
|---------------------------|----------|--|-----|-------------|
| By regents or legislature | Date | | | |
| 3 | 4 | 5 | | |
| d | 2 Je 35 | Henry M. Mac Cracken D.D. LL.D. (Chancellor) | 1 | LAW |
| L | 17 Ap 51 | Andrew V. V. Raymond D.D. LL.D. | 2 | . univ. 1 |
| E | My 58 | Seth Low LL.D. | 3 | ny 2 |
| E | 16 Je 86 | e Jacob Gould Schurman M.A. D.Sc. LL.D. | 4 | mbia... 3 |
| E | 9 My 87 | James O. Putnam (Chancellor) | 5 | ell 4 |
| E | 11 Je 81 | ..... | 6 | lo 5 |
| E | 11 Je 95 | James Roscoe Day S.T.D. LL.D. (Chancellor) | 7 | York. 6 |
|  |  | ..... |  | cuse .. 7 |
| R | 12 Mr 07 | Seth Low LL.D. | 1 | DICINE |
| L | 11 F 37 | Henry M. Mac Cracken D.D. LL.D. (Chancellor) | 2 | id S... 1 |
| L | 16 F 39 | Andrew V. V. Raymond D.D. LL.D. | 3 | . univ. 2 |
| L | 11 My 46 | James O. Putnam (Chancellor) | 4 | ny 3 |
| L | 6 Mr 58 | ..... | 5 | lo 4 |
| L | 12 Ap 60 | ..... | 6 | hosp... 5 |
| L | 14 Ap 63 | ..... | 7 | eop... 6 |
| L | 13 Ap 64 | ..... | 8 | . hos. 7 |
| L | 22 Ap 65 | ..... | 9 | . in... 8 |
| E | 6 Ja 72 | Daniel Bliss D.D. | 10 | ctic... 9 |
| L | 15 N 82 | James Roscoe Day S.T.D. LL.D. (Chancellor) | 11 | un. 10 |
| L | 25 My 86 | ..... | 12 | cuse .. 11 |
| E | 98 | e Jacob Gould Schurman M.A. D.Sc. LL.D. | 13 | clinic. 12 |
|  |  | ..... | 14 | . grad. 13 |
|  |  | ..... |  | ell 14 |
| L | 25 Ap 31 | ..... | 1 | ARMACY |
| E | 3 Mr 67 | Daniel Bliss D.D. | 2 | York. 1 |
| E | 21 Je 81 | Andrew V. V. Raymond D.D. LL.D. | 3 | in 2 |
| E | 8 Mr 86 | James O. Putnam (Chancellor) | 4 | ny 3 |
| L | 21 Ap 86 | ..... | 5 | lo 4 |
|  |  | ..... |  | klyn .. 5 |
| L | 31 Mr 65 | ..... | 1 | NTISTRY |
| E | 3 My 92 | James O. Putnam (Chancellor) | 2 | . col... 1 |
| R | 8 Je 92 | ..... | 3 | alo 2 |
|  |  | ..... |  | . sch.. 3 |
| L | 20 My 79 | ..... | 1 | MOLOGY |
| L | 6 Ap 57 | ..... | 1 | . oph.. 1 |
| L | 29 Ap 75 | ..... | 2 | ERINARY |
| L | 21 Mr 94 | e Jacob Gould Schurman M.A. D.Sc. LL.D. | 3 | York. 1 |
|  |  | ..... |  | rican.. 2 |
|  |  | ..... |  | . state. 3 |

d Established without separate charter by the trustees of the institution of which this school is a department. e Thomas F. Crane M. A., acting president.

| No. | Dean or senior officer of faculty | School of practice | Years in course | Officers of instruction |
|------------|---|--------------------|-----------------|-------------------------|
| | 6 | 7 | 8 | 9 |
| 1 LA | 1 Clarence D. Ashley LL.D. | | e 2 | 17 |
| 1 N. Y. | 2 J. Newton Fiero LL.D. | | 2 | 17 |
| 2 Alban | 3 William A. Keener LL.D. | | 3 | 11 |
| 3 Colum | 4 Francis M. Finch B.A. LL.D. | | 3 | 9 |
| 4 Corne | 5 Adelbert Moot. | | 2 | 26 |
| 5 Buffal | 6 George Chase LL.D. (President). | | 2 | 16 |
| 6 New Y | 7 James B. Brooks M.A. D.C.L. | | 3 | 24 |
| 7 Syrac | Total. | | | 120 |
| | a Average. | | | 17 |
| MEDIC | 1 James W. McLane M.D. | A | 4 | 139 |
| 1 P. and | 2 Edward G. Jaueway LL.D. M.D. | A | 4 | 89 |
| 2 Bellev | 3 Albert Vander Veer Ph.D. M.D. | A | 4 | 52 |
| 3 Alban | 4 Matthew D. Mann M.A. M.D. | A | 4 | 95 |
| 4 Buffal | 5 Jarvis S. Wight M.A. LL.D. M.D. | A | 4 | 63 |
| 5 L. I. I. | 6 William Tod Helmuth LL.D. M.D. | H | 4 | 44 |
| 6 Home | 7 M. Belle Brown M.D. | H | 4 | 33 |
| 7 Wom. | 8 Emily Blackwell M.D. | A | 4 | 39 |
| 8 Wom. | 9 George W. Boskowitz M.D. | E | 4 | 31 |
| 9 Eclect | 10 | ? | 4 | 6 |
| 10 Syriar | 11 Henry D. Didams LL.D. M.D. | A | 4 | 44 |
| 11 Syrac | 12 John A. Wyeth M.D. (President). | A | ? | 140 |
| 12 Polycl | 13 D. B. St John Roosa LL.D. M.D. (President). | d | ? | 175 |
| 13 Post g | 14 William Mecklenburg Polk LL.D. M.D. | A | 4 | 75 |
| 14 Corne | Total. | | | 1 025 |
| | a Average. | | | 73 |
| PHARM | 1 b. | | 2 | 13 |
| 1 New Y | 2 | | 2 | 3 |
| 2 Syriar | 3 Willis G. Tucker Ph.D. M.D. (President). | | 2 | 7 |
| 3 Alban | 4 Willis G. Gregory Ph.G. M.D. | | 2 | 18 |
| 4 Buffal | 5 Elias H. Bartley M.D. | | 2 | 13 |
| 5 Brook | Total. | | | 54 |
| | a Average. | | | 11 |
| DENTL | 1 Fanenil D. Weiss M.D. | | 3 | 36 |
| 1 N. Y. c | 2 William C. Barrett M.D. D.D.S. M.D.S. | | 3 | 35 |
| 2 Buffal | 3 Charles Milton Ford M.A. M.D. | | 3 | 33 |
| 3 N. Y. s | Total. | | | 104 |
| | a Average. | | | 35 |
| OPHTHA | 1 Timothy F. Allen LL.D. M.D. (President). | H | ? | 22 |
| 1 N. Y. c | 1 Hermann M. Briggs M.D. (President). | A | 3 | 18 |
| 2 VETERI | 2 Alexander F. Liantard M.D. V.M. | A | 3 | 17 |
| 1 New Y | 3 James Law F.R.C.V.S. | A | 3 | 20 |
| 2 Ameri | Total. | | | 55 |
| 3 N. Y. s | a Average. | | | 18 |
| | Grand total. | | | 1 380 |
| | Total including table 4. | | | 2 057 |

a Obtained by dividing the total of each column by the number of schools reporting figures in each. b There are no officers. c A. allopathic, E. eclectic, H. homeopathic. d All legal practitioners. e Three years required to complete the evening course.

TABLE 3—STATISTICS OF PROFESSIONAL SCHOOLS

231

| Total students | Net property | COMMENCEMENT | | DAYS ACTUALLY IN SESSION | | OFFICERS OF INSTRUCTION | | No. |
|----------------|-----------------|--------------|-------|--------------------------|--------------------------------|-------------------------|---|-------------|
| | | 1899 | 1900 | Full session | Half holidays, partial session | Full professors | Adjunct, associate and assistant professors | |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 637 | \$156 818 95 | 8 Je | 9 Je | 167 | ----- | 8 | ----- | 1 |
| 79 | 14 583 50 | 1 Je | 31 My | 158 | ----- | 6 | ----- | 2 |
| 349 | 581 250 .. | 7 Je | 13 Je | 157 | 37 | 9 | ----- | 3 |
| 164 | 102 699 62 | 22 Je | 21 Je | 218 | ----- | 6 | ----- | 4 |
| 116 | 1 042 86 | 22 My | 28 My | 188 | ----- | 10 | ----- | 5 |
| 7 765 | 88 093 25 | 8 Je | 14 Je | 200 | ----- | 3 | ----- | 6 |
| 84 | 650 .. | 7 Je | ----- | 175 | ----- | ----- | ----- | 7 |
| 2 194 | \$946 038 18 | ----- | ----- | ----- | ----- | 42 | ----- | Tot. |
| 313 | \$135 148 31 | ----- | ----- | ----- | ----- | 7 | ----- | Av. |
| 726 | g\$2 285 000 .. | 7 Je | 13 Je | 157 | 37 | 14 | 9 | 1 |
| 430 | 477 969 36 | 16 My | 8 Je | 178 | ----- | 26 | 8 | 2 |
| 154 | 70 380 52 | 19 Ap | 2 My | 135 | 28 | 14 | 8 | 3 |
| 229 | 184 812 40 | 25 Ap | 1 My | 145 | 29 | 7 | 41 | 4 |
| 213 | 235 000 .. | 16 My | 16 My | 146 | 32 | 20 | 2 | 5 |
| 126 | 116 050 .. | 4 My | 3 My | 164 | ----- | 25 | ----- | 6 |
| 23 | 27 527 32 | 9 My | 9 My | 137 | ----- | 18 | 2 | 7 |
| 75 | A52 500 .. | 25 My | ----- | 149 | 29 | 9 | 8 | 8 |
| 78 | 35 022 .. | 4 My | 5 My | 175 | ----- | 13 | 15 | 9 |
| 53 | ----- | 12 Jl | 11 Jl | 179 | 36 | 6 | ----- | 10 |
| 88 | 96 113 06 | 7 Je | 13 Je | 151 | 29 | 18 | ----- | 11 |
| 339 | 57 337 19 | ----- | ----- | 230 | ----- | 29 | 62 | 12 |
| 523 | 96 557 59 | ----- | ----- | 306 | ----- | 37 | 17 | 13 |
| 278 | 1 500 000 .. | 7 Je | 6 Je | 156 | ----- | 29 | 4 | 14 |
| 3 335 | \$5 184 209 44 | ----- | ----- | ----- | ----- | 265 | 176 | Tot. |
| 238 | \$398 785 34 | ----- | ----- | ----- | ----- | 19 | 16 | Av. |
| 288 | \$126 455 31 | 28 Ap | 27 Ap | 170 | ----- | 7 | 1 | 1 |
| 17 | ----- | 12 Jl | 11 Jl | 179 | 36 | 2 | ----- | 2 |
| 68 | 5 917 67 | 14 Mr | 13 Mr | 125 | ----- | 3 | ----- | 3 |
| 76 | 5 176 92 | 25 Ap | 1 My | 154 | 1 | 4 | ----- | 4 |
| 107 | 6 698 87 | 21 Ap | 10 My | 174 | ----- | 5 | ----- | 5 |
| 556 | \$144 248 77 | ----- | ----- | ----- | ----- | 21 | 1 | Tot. |
| 111 | \$36 062 19 | ----- | ----- | ----- | ----- | 4 | 1 | Av. |
| 256 | \$58 997 06 | 14 My | 14 My | 174 | ----- | 5 | ----- | 1 |
| 200 | 20 215 87 | 25 Ap | 1 My | 148 | 29 | 11 | 4 | 2 |
| 42 | k----- | 12 My | 8 My | 138 | 27 | 7 | ----- | 3 |
| 498 | \$79 212 93 | ----- | ----- | ----- | ----- | 23 | 4 | Tot. |
| 166 | \$39 606 47 | ----- | ----- | ----- | ----- | 8 | 4 | Av. |
| 4 | \$100 500 .. | 9 My | ----- | 145 | ----- | ----- | ----- | 1 |
| 37 | ----- | 1 Ap | 1 Ap | 139 | ----- | 7 | ----- | 1 |
| 22 | 88 000 .. | 4 Ap | 1 Ap | 142 | ----- | 7 | 9 | 2 |
| 24 | 172 102 76 | 22 Je | 21 Je | 221 | ----- | 6 | 6 | 3 |
| 83 | \$180 102 76 | ----- | ----- | ----- | ----- | 20 | 15 | Tot. |
| 28 | \$90 051 38 | ----- | ----- | ----- | ----- | 7 | 8 | Av. |
| 6 670 | \$6 634 312 08 | ----- | ----- | ----- | ----- | 371 | 196 | Prof. |
| 21 196 | \$24 552 679 62 | ----- | ----- | ----- | ----- | 579 | 225 | Total 3 & 4 |

LAW
 . univ. 1
 ny 2
 mbia... 3
 ell 4
 do 5
 York. 6
 case .. 7

DICINE
 id S... 1
 univ. 2
 ny 3
 do 4
 hosp... 5
 eop... 6
 . hos. 7
 . in... 8
 tie.... 9
 un... 10
 case .. 11
 clinic. 12
 grad. 13
 ell 14

ARMACY
 York. 1
 un 2
 ny 3
 alo 4
 klyn .. 5

NTISTRY
 . col... 1
 alo 2
 . sch.. 3

MOLOGY
 . oph.. 1
 ERINARY
 York. 1
 rican.. 2
 . state. 3

f Of these 28 attended the summer school and 10 others. g Taken from report for 1897, no figures having been reported since. h Value of buildings only, as reported in 1898; other property included with data reported for Arts department. i Used in common by hospital and college. j No separate statistics reported for this department; included with data reported for arts department. k Deficit of \$3291.26 existing at time of report. l Not including summer session.

| No. | OFFICERS OF INSTRUCTION, <i>concluded</i> | | | | | | | EMPLOYEES NOT | | |
|---------------------------------|---|------------|------------------------------------|--------------|------------|--------------|------------------------------|---------------|------------|-----------------|
| | Instructors and tutors | Lecturers | Other assistants on teaching force | TOTAL | | | | In libraries | In museums | In laboratories |
| | | | | Men | Women | Resident | Non-resident or partial time | | | |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| LA | | | | | | | | | | |
| 1 N. Y. | 9 | | | 17 | | 8 | 9 | 4 | | |
| 2 Alban | | 11 | | 17 | | 14 | 3 | 1 | | |
| 3 Colum | | 2 | | 11 | | 9 | 2 | | | |
| 4 Corne | | 3 | | 9 | | 16 | 3 | 1 | | |
| 5 Buffal | | 16 | | 26 | | | 26 | | | |
| 6 New Y | 8 | 5 | | 16 | | 3 | 13 | 2 | | |
| 7 Syrac | 5 | 19 | | 23 | 1 | | 24 | | | |
| Tot | 22 | 56 | | 119 | 1 | 40 | 80 | 8 | | |
| Av | 7 | 9 | | 17 | 1 | 8 | 11 | 2 | | |
| MEDIC | | | | | | | | | | |
| 1 P. and | 16 | 9 | 91 | 139 | | 61 | 78 | | | |
| 2 Bellev | 9 | 9 | 37 | 89 | | 59 | 9 | | 1 | 5 |
| 3 Alban | 18 | 6 | 6 | 52 | | 47 | 5 | | | 1 |
| 4 Buffal | 37 | 6 | 4 | 93 | 2 | 84 | 1 | 2 | 2 | 11 |
| 5 L. I. E | 21 | 4 | 16 | 63 | | 63 | | | | 2 |
| 6 Home | 6 | 9 | 4 | 44 | | | 44 | 1 | 1 | |
| 7 Wom. | | 11 | 2 | 15 | 18 | 33 | 1 | | | |
| 8 Wom. | 16 | 2 | 4 | 14 | 25 | | 39 | | | |
| 9 Eclect | 3 | | | 30 | 1 | 29 | 2 | | | |
| 10 Syriar | | | | 6 | | 4 | 2 | | | |
| 11 Syrac | 16 | 10 | | 44 | | | 43 | 1 | | 1 |
| 12 Polyc | 21 | 28 | | 139 | 1 | 140 | | | | |
| 13 Post g | 51 | | 70 | 175 | | | 175 | | | 2 |
| 14 Corne | 20 | 2 | 20 | 75 | | 75 | 1 | 1 | 1 | 1 |
| Tot | 234 | 96 | 254 | 978 | 47 | 636 | 389 | 3 | 4 | 22 |
| Av | 20 | 9 | 25 | 70 | 9 | 58 | 43 | 2 | 1 | 4 |
| PHARM | | | | | | | | | | |
| 1 New Y | 3 | | 2 | 13 | | 13 | | 1 | | |
| 2 Syriar | 1 | | | 3 | | | 3 | | | |
| 3 Alban | 3 | 1 | | 7 | | 7 | | | | |
| 4 Buffal | 5 | 9 | | 18 | | 18 | | 1 | | 2 |
| 5 Brook | 3 | 1 | 4 | 13 | | | 13 | | | |
| Tot | 15 | 11 | 6 | 54 | | 38 | 16 | 2 | | 2 |
| Av | 3 | 4 | 3 | 11 | | 13 | 8 | 1 | | 2 |
| DENT | | | | | | | | | | |
| 1 N. Y. | 15 | 14 | 2 | 36 | | 9 | 36 | | | |
| 2 Buffal | 6 | 8 | 6 | 35 | | 2 | 33 | | | |
| 3 N. Y. S | 2 | 9 | 15 | 33 | | | 33 | | | |
| Tot | 23 | 31 | 23 | 104 | | 2 | 102 | | | |
| Av | 8 | 10 | 8 | 35 | | 2 | 34 | | | |
| OPHTHA | | | | | | | | | | |
| 1 N. Y. | 22 | | | 20 | 2 | | 22 | | | |
| VETERI | | | | | | | | | | |
| 1 New Y | 4 | 7 | | 18 | | 1 | 17 | | | 1 |
| 2 Americ | | 1 | | 17 | | | | 1 | 1 | |
| 3 N. Y. S | 7 | 1 | | 19 | 1 | 20 | | | | |
| Tot | 11 | 9 | | 54 | 1 | 38 | 17 | 2 | 1 | 1 |
| Av | 6 | 3 | | 18 | 1 | 13 | 17 | 1 | 1 | 1 |
| Prof | 327 | 203 | 283 | 1 329 | 51 | 754 | 626 | 15 | 5 | 25 |
| Total of 3 & 4 | 603 | 337 | 313 | 1 815 | 242 | 1 127 | 930 | 92 | 8 | 33 |

a Give partial time.

TABLE 3—STATISTICS OF PROFESSIONAL SCHOOLS

233

| COUNTED IN FACULTY | | | | NUMBER AND CLASSIFICATION OF STUDENTS | | | | | | No. |
|-----------------------------------|---------------|----------------------------------|-------|---------------------------------------|-------|---------|-------|---------|-------|----------------|
| In financial and business offices | In Gymnasiums | Janitors, engineers and laborers | Total | BY CLASSES | | | | | | |
| | | | | 1ST YEAR | | 2D YEAR | | 3D YEAR | | |
| | | | | Men | Women | Men | Women | Men | Women | |
| 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | |
| 2 | | 8 | 14 | 246 | 16 | 195 | 11 | 44 | 2 | 1 |
| 1 | | 1 | 3 | 21 | 1 | 57 | | | | 2 |
| | | | b | 133 | | 105 | | 107 | | 3 |
| | | | 1 | 65 | | 78 | | 17 | | 4 |
| | | | | 69 | 1 | 38 | 2 | | | 5 |
| 1 | | 4 | 7 | 168 | | 207 | | | | 6 |
| | | | | 51 | | 25 | | | | 7 |
| 4 | | 13 | 25 | 753 | 18 | 705 | 13 | 168 | 2 | Tot. |
| 1 | | 4 | 6 | 108 | 6 | 101 | 7 | 56 | 2 | Av. |
| 2 | | 13 | b | 194 | | 161 | | 179 | | 1 |
| | | 1 | 21 | 91 | | 69 | | 12 | | 2 |
| | | 4 | 2 | 34 | | 45 | | 75 | | 3 |
| 1 | | 1 | 20 | 56 | 2 | 57 | 2 | 47 | 7 | 4 |
| 1 | | | 3 | 23 | | 37 | | 11 | | 5 |
| 2 | | 5 | c | 26 | | 25 | | 36 | | 6 |
| | | 1 | 1 | | 5 | | 8 | | 4 | 7 |
| | | 4 | 4 | | 16 | | 26 | | 13 | 8 |
| | | 1 | 1 | 16 | 5 | 16 | 6 | 16 | 3 | 9 |
| 3 | | 3 | 7 | 6 | | 15 | | 13 | | 10 |
| 3 | | 10 | 13 | 26 | 4 | 26 | 1 | 29 | 2 | 11 |
| 12 | | 23 | 37 | | | | | | | 12 |
| 1 | 1 | 1 | 1 | 98 | 6 | 75 | 4 | 65 | 12 | 13 |
| 24 | | 65 | 118 | 570 | 38 | 526 | 47 | 483 | 41 | Tot. |
| 3 | | 7 | 11 | 57 | 6 | 53 | 8 | 48 | 7 | Av. |
| 1 | | 3 | 5 | 144 | 6 | 123 | 5 | | | 1 |
| | | | | 7 | | 10 | | | | 2 |
| | | | | 44 | | 24 | | | | 3 |
| 1 | | 4 | | 46 | 1 | 23 | 4 | | | 4 |
| 1 | | 1 | 2 | 52 | 6 | 46 | 3 | | | 5 |
| 3 | | 4 | 11 | 293 | 13 | 226 | 12 | | | Tot. |
| 1 | | 2 | 4 | 59 | 4 | 45 | 4 | | | Av. |
| 2 | | 7 | 9 | 127 | | 42 | | 81 | | 1 |
| 2 | | 1 | 3 | 100 | 1 | 33 | | 65 | 1 | 2 |
| 1 | | 1 | 2 | 7 | 5 | 16 | | 10 | 4 | 3 |
| 5 | | 9 | 14 | 234 | 6 | 91 | | 156 | 5 | Tot. |
| 2 | | 3 | 5 | 78 | 3 | 30 | | 52 | 3 | Av. |
| | | | | | | | | | | 1 |
| 1 | | 4 | 6 | 16 | | 7 | 1 | 13 | | 1 |
| | | 2 | 4 | 8 | | 6 | | 7 | | 2 |
| | | 5 | 6 | 8 | | 7 | | 8 | | 3 |
| 1 | | 11 | 16 | 32 | | 20 | 1 | 28 | | Tot. |
| 1 | | 4 | 5 | 11 | | 7 | 1 | 9 | | Av. |
| 37 | | 102 | 184 | 1 882 | 75 | 1 568 | 73 | 835 | 48 | Prof. |
| 117 | 11 | 242 | 502 | 5 817 | 5 198 | 2 812 | 240 | 1 490 | 139 | Total of 3 & 4 |

b Given for university in table 1. c Besides 46 in hospital.

LAW
 . univ. 1
 ny 2
 mbia... 3
 ell 4
 lo 5
 York. 6
 case .. 7

DICINE
 ad S... 1
 univ. 2
 ny 3
 lo 4
 hosp... 5
 eop... 6
 l. hos. 7
 l. in... 8
 etic... 9
 an... 10
 case.. 11
 clinic. 12
 grad. 13
 ell 14

ARMACY
 York. 1
 an 2
 ny 3
 lo 4
 klyn .. 5

STISTRY
 . col... 1
 alo 2
 . sch.. 3

MOLOGY
 . oph.. 1
 ERINARY
 York. 1
 rican.. 2
 . state. 3

| NUMBER AND CLASSIFI- | | | | | | | | | | |
|----------------------|------------|-------|------------|-------|-------|--------|-------|--|--------------------------------|-------|
| No. | BY CLASSES | | BY COURSES | | | | | | TOTAL IN UNDERGRADUATE COURSES | |
| | 4th YEAR | | LL. B. | M. D. | | D.D.S. | V. S. | Ph. G. (Not recogn- ized by Uni- versity) | Men | Women |
| | Men | Women | | Men | Women | | | | | |
| | | | | | | | | | | |
| LA | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 1 N. Y. | 1 | | 514 | | | | | | 485 | 29 |
| 2 Alban | 2 | | 79 | | | | | | 78 | 1 |
| 3 Colum | 3 | | 345 | | | | | | 345 | |
| 4 Corne | 4 | | 160 | | | | | | 160 | |
| 5 Buffal | 5 | | 110 | | | | | | 107 | 3 |
| 6 New Y | 6 | | 375 | | | | | | 375 | |
| 7 Syrac | 7 | | 76 | | | | | | 76 | |
| Tot..... | | | 1 659 | | | | | | 1 626 | 33 |
| Av..... | | | 237 | | | | | | 232 | 11 |
| MEDI | | | | | | | | | | |
| 1 P. and | 1 | 139 | | 673 | | | | | 673 | |
| 2 Bellev | 2 | 239 | | 411 | | | | | 411 | |
| 3 Alban | 3 | | | 154 | | | | | 154 | |
| 4 Buffal | 4 | 46 | 6 | 206 | 17 | | | | 206 | 17 |
| 5 L. I. H | 5 | 120 | | 191 | | | | | 191 | |
| 6 Home | 6 | 38 | | 125 | | | | | 125 | |
| 7 Wom. | 7 | | | | 23 | | | | | 23 |
| 8 Wom. | 8 | | 19 | | 74 | | | | | 74 |
| 9 Elect | 9 | 12 | 2 | 60 | 16 | | | | 60 | 16 |
| 10 Syrac | 10 | 19 | | 53 | | | | | 53 | |
| 11 Syrac | 11 | | | 81 | 7 | | | | 81 | 7 |
| 12 Polycl | 12 | | | | | | | | | |
| 13 Post g | 13 | | | | | | | | | |
| 14 Corne | 14 | 8 | 4 | 246 | 26 | | | | 246 | 26 |
| Tot..... | | 621 | 37 | 2 200 | 163 | | | | 2 200 | 163 |
| Av..... | | 78 | 7 | 220 | 27 | | | | 220 | 27 |
| PHARM | | | | | | | | | | |
| 1 New Y | 1 | | | | | | | 278 | 267 | 11 |
| 2 Syrac | 2 | | | | | | | 17 | 17 | |
| 3 Alban | 3 | | | | | | | 68 | 68 | |
| 4 Buffal | 4 | | | | | | | 74 | 69 | 5 |
| 5 Brook | 5 | | | | | | | 107 | 98 | 9 |
| Tot..... | | | | | | | | 544 | 519 | 25 |
| Av..... | | | | | | | | 109 | 104 | 8 |
| DENTE | | | | | | | | | | |
| 1 N. Y. | 1 | | | | | 250 | | | 250 | |
| 2 Buffal | 2 | | | | | 200 | | | 198 | 2 |
| 3 N. Y. s | 3 | | | | | 42 | | | 33 | 9 |
| Tot..... | | | | | | 492 | | | 481 | 11 |
| Av..... | | | | | | 164 | | | 160 | 6 |
| OPHTHA | | | | | | | | | | |
| 1 N. Y. | 1 | | | | | | | | | |
| VETERI | | | | | | | | | | |
| 1 New Y | 1 | | | | | | 37 | | 36 | 1 |
| 2 Ameri | 2 | | | | | | 21 | | 21 | |
| 3 N. Y. s | 3 | | | | | | 23 | | 23 | |
| Tot..... | | | | | | | 81 | | 80 | 1 |
| Av..... | | | | | | | 27 | | 27 | 1 |
| Prof.... | | 621 | 37 | 1 659 | 2 200 | 163 | 492 | 81 | 544 | 233 |
| Total of 3 & 4 | | 785 | 78 | 1 659 | 2 200 | 163 | 492 | 81 | 544 | 5 655 |

a The degree of D. V. M. is conferred.

CATION OF STUDENTS, *concluded*

| UNCLASSIFIED STUDENTS | | IN GRADUATE COURSES | | GRAND TOTAL OF STUDENTS | | TOTAL STUDENTS BY PREVIOUS EDUCATION | | | No. |
|-----------------------|-------|---------------------|-------|-------------------------|-------|--------------------------------------|----------------------------------|----------------------------|----------------|
| Men | Women | Men | Women | Men | Women | College graduates | High school or academy graduates | Non-graduates or not known | |
| 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | |
| 68 | | 46 | 9 | 599 | 38 | 143 | 205 | 289 | 1 |
| | | | | 78 | 1 | 17 | 14 | 48 | 2 |
| 4 | | | | 349 | | 217 | 132 | | 3 |
| 4 | | | | 164 | | 114 | | 150 | 4 |
| 5 | 1 | | | 112 | 4 | 30 | 34 | 52 | 5 |
| 361 | | 29 | | 6765 | | 292 | | 473 | 6 |
| 8 | | | | 84 | | 11 | 72 | 1 | 7 |
| 450 | 1 | 75 | 9 | 2 151 | 43 | 724 | 457 | 1 013 | Tot. |
| 75 | 1 | 38 | 9 | 307 | 14 | 103 | 91 | 169 | Av. |
| 53 | | | | 726 | | 303 | 423 | | 1 |
| 19 | | | | 430 | | 49 | 151 | 230 | 2 |
| | | | | 154 | | 26 | | 128 | 3 |
| 4 | 2 | | | 210 | 19 | 16 | 113 | 100 | 4 |
| 22 | | | | 213 | | 20 | | 193 | 5 |
| 1 | | | | 126 | | 18 | 55 | 53 | 6 |
| | | | | | 23 | 5 | 7 | 11 | 7 |
| | 1 | | | | 75 | 16 | 19 | 40 | 8 |
| | | 1 | 1 | 61 | 17 | 13 | 11 | 54 | 9 |
| | | | | 53 | | 15 | 24 | 14 | 10 |
| | | | | 81 | 7 | 8 | 69 | 11 | 11 |
| | | 328 | 11 | 328 | 11 | 339 | | | 12 |
| | | 495 | 28 | 495 | 28 | 523 | | | 13 |
| 6 | | | | 252 | 26 | 146 | | 232 | 14 |
| 105 | 3 | 824 | 40 | 3 129 | 206 | 1 397 | 872 | 1 066 | Tot. |
| 18 | 2 | 275 | 13 | 261 | 26 | 100 | 97 | 97 | Av. |
| | | 10 | | 277 | 11 | | | 288 | 1 |
| | | | | 17 | | | | 5 | 2 |
| | | | | 68 | | | | 68 | 3 |
| 2 | | | | 71 | 5 | 4 | | 72 | 4 |
| | | | | 98 | | | | 107 | 5 |
| 2 | | 10 | | 531 | 25 | 5 | 11 | 540 | Tot. |
| 2 | | 10 | | 106 | 8 | 3 | 11 | 108 | Av. |
| | | 6 | | 256 | | 2 | 44 | 210 | 1 |
| | | | | 198 | 2 | 1 | | 199 | 2 |
| | | | | 33 | 9 | 2 | | 40 | 3 |
| | | 6 | | 487 | 11 | 5 | 44 | 449 | Tot. |
| | | 6 | | 162 | 6 | 2 | 44 | 150 | Av. |
| | | 3 | 1 | 3 | 1 | 4 | | | 1 |
| | | | | 36 | 1 | | 5 | 32 | 1 |
| | | 1 | | 22 | | | 13 | 9 | 2 |
| | | 1 | | 24 | | 3 | 6 | 15 | 3 |
| | | 2 | | 82 | 1 | 3 | 24 | 56 | Tot. |
| | | 1 | | 27 | 1 | 3 | 8 | 19 | Av. |
| 557 | 4 | 920 | 50 | 6 383 | 287 | 2 138 | 1 408 | 3 124 | Prof. |
| 1 480 | 2 025 | 1 021 | 111 | 13 405 | 7 791 | 3 043 | 2 154 | 15 999 | Total of 3 & 4 |

b Of these 28 attended the summer course and 10 others.

| No. | DEGREES ALREADY HELD BY STUDENTS | | | | | | | | DEGREES CONFERRED ON | | |
|----------------|----------------------------------|------|-------|------|-------|------|---------------|-------|----------------------|------|-------|
| | B.A. | B.S. | Ph.B. | C.E. | LL.B. | M.D. | Other degrees | Total | LL.B. | M.D. | |
| | | | | | | | | | | Men | Women |
| 1 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 |
| 2 | 54 | 28 | 6 | 1 | 44 | 4 | 6 | 143 | 105 | | 67 |
| 3 | 12 | 2 | 3 | | 1 | | | 18 | 2 | | |
| 4 | 158 | 25 | 20 | | | | | a234 | 92 | | |
| 5 | 6 | 8 | 4 | | | | | b15 | 25 | | |
| 6 | 23 | 2 | 3 | | | | | c30 | 32 | | |
| 7 | 203 | 20 | 17 | 1 | 21 | 1 | 28 | e291 | 159 | | |
| Tot..... | 462 | 81 | 56 | 2 | 67 | 5 | 70 | 743 | 433 | | |
| Av..... | 66 | 12 | 8 | 1 | 17 | 3 | 14 | 106 | 62 | | |
| 1 | 194 | 54 | 11 | 1 | 1 | 19 | 38 | d318 | | 140 | |
| 2 | 87 | 7 | 5 | | | 3 | 1 | e53 | | 177 | |
| 3 | 14 | 3 | 4 | | | | 5 | 26 | | 67 | |
| 4 | 7 | 1 | 4 | | | 7 | 10 | f29 | | 42 | 4 |
| 5 | 11 | 8 | | | | | 28 | 47 | | 60 | |
| 6 | 13 | 2 | 2 | | | 1 | | 18 | | 33 | |
| 7 | 2 | | | | | | | 2 | | | 6 |
| 8 | 14 | 2 | | | | | | 16 | | | 17 |
| 9 | 7 | | | | | 2 | 4 | 13 | | 12 | 2 |
| 10 | 15 | | | | | | 1 | 16 | | 46 | |
| 11 | 4 | 4 | | | | | | 8 | | 4 | |
| 12 | ? | ? | ? | ? | ? | 339 | ? | 339 | | | |
| 13 | ? | ? | ? | ? | ? | 523 | ? | 523 | | | |
| 14 | 18 | 7 | 5 | | | 5 | 18 | g53 | | 56 | 11 |
| Tot..... | 336 | 88 | 31 | 1 | 1 | 899 | 145 | 1 461 | | 597 | 40 |
| Av..... | 28 | 10 | 5 | 1 | 1 | 112 | 13 | 104 | | 60 | 8 |
| 1 | ? | ? | ? | ? | ? | ? | ? | ? | | | |
| 2 | 1 | | | | | | | 1 | | | |
| 3 | ? | ? | ? | ? | ? | ? | ? | ? | | | |
| 4 | | | | | | 2 | 2 | 4 | | | |
| 5 | | | | | | | | | | | |
| Tot..... | 1 | | | | | 2 | 2 | 5 | | | |
| Av..... | 1 | | | | | 2 | 2 | 3 | | | |
| 1 | 3 | 1 | | | | | | 4 | | | |
| 2 | | | | | | | 1 | 1 | | | |
| 3 | | | | | | 2 | | 2 | | | |
| Tot..... | 3 | 1 | | | | 2 | 1 | 7 | | | |
| Av..... | 3 | 1 | | | | 2 | 1 | 2 | | | |
| 1 | | | | | | 4 | | 4 | | | |
| 2 | | | | | | | | | | | |
| 3 | 1 | | 1 | | | | 6 | 78 | | | |
| Tot..... | 1 | | 1 | | | 1 | 8 | 11 | | | |
| Av..... | 1 | | 1 | | | 1 | 4 | 6 | | | |
| Prof... | 803 | 170 | 88 | 3 | 68 | 913 | 186 | 2 231 | 433 | 597 | 40 |
| Total of 3 & 4 | 1 297 | 216 | 125 | 8 | 80 | 915 | 309 | 2 950 | 433 | 597 | 40 |

a Held by 217 students. b Held by 14 students. c Held by 287 students. d Held by 308 students. e Held by 63 students. f Held by 26 students. g Held by 46 students. h Held by five students. i By order of the Ottoman government the college is not allowed to confer the degree of M. D. or Ph. D. giving merely a certificate entitling graduates to appear for examination at Constantinople. j Conferred by University of the State of New York on students recommended by the faculty.

TABLE 3—STATISTICS OF PROFESSIONAL SCHOOLS

237

| COMPLETION OF COURSE DURING YEAR | | | | | | GRADUATED WITHOUT DEGREES | | No. |
|----------------------------------|------|---|---------------|-------------------|-------|---------------------------|-------|-------------------|
| D.D.S. | V.S. | Ph.G. (Not recog- nized by University) | All others | TOTAL DURING YEAR | | Men | Women | |
| | | | | Men | Women | | | |
| 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | |
| | | | 19 | 111 | 13 | | | 1 |
| | | | | 2 | | 46 | | 2 |
| | | | | 92 | | | | 3 |
| | | | | 25 | | | | 4 |
| | | | | 30 | 2 | | | 5 |
| | | | 8 | 167 | | | | 6 |
| | | | | 18 | | 2 | | 7 |
| | | | 27 | 445 | 15 | 48 | | Tot. |
| | | | 14 | 64 | 8 | 24 | | Av. |
| | | | | 140 | | | | 1 |
| | | | | 177 | | 117 | | 2 |
| | | | | 67 | | | | 3 |
| | | | | 42 | 4 | | | 4 |
| | | | | 60 | | | | 5 |
| | | | | 33 | | 3 | | 6 |
| | | | | | 76 | | | 7 |
| | | | | | 17 | | | 8 |
| | | | | 12 | 2 | | | 9 |
| | | | | 16 | | | | 10 |
| | | | | 4 | | | | 11 |
| | | | | | | | | 12 |
| | | | | 56 | 11 | | | 13 |
| | | | | | | | | 14 |
| | | | | 597 | 40 | 120 | | Tot. |
| | | | | 60 | 8 | 60 | | Av. |
| | | 109 | 9 | 114 | 4 | | | 1 |
| | | 110 | | 110 | | | | 2 |
| | | 21 | | 21 | | | | 3 |
| | | 30 | 6 | 32 | 4 | | | 4 |
| | | 42 | 1 | 41 | 2 | 10 | 1 | 5 |
| | | | | | | | | |
| | | 212 | 16 | 218 | 10 | 10 | 1 | Tot. |
| | | 42 | 5 | 44 | 3 | 10 | 1 | Av. |
| 144 | | | | 144 | | 4 | | 1 |
| 58 | | | | 57 | 1 | | | 2 |
| 112 | | | | 78 | 14 | | | 3 |
| | | | | | | | | |
| 114 | | | | 109 | 5 | 4 | | Tot. |
| | | | | | | | | |
| 83 | | | | 36 | 3 | 4 | | Av. |
| | | | 4 | 3 | 1 | | | 1 |
| | 8 | | | 8 | | | | 1 |
| | 2 | | | 2 | | | | 2 |
| | 16 | | | 16 | | | | 3 |
| | | | | | | | | |
| | 16 | | | 16 | | | | Tot. |
| | | | | | | | | |
| | 5 | | | 5 | | | | Av. |
| | | | | | | | | |
| 114 | 16 | 212 | 47 | 1 388 | 71 | 182 | 1 | Prof. |
| 114 | 16 | 212 | 208 | 1 500 | 120 | 607 | 318 | Total of 3 & 4 |

* The degree of D.V.M. is conferred.

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York. 6
cuse .. 7

DICINE
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eop... 6
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i. in... 8
otic... 9
un. 10
cuse .. 11
clinic. 12
grad. 13
ell 14

ARMACY
York. 1
un.... 2
ny ... 3
alo 4
klyn.. 5

NTISTRY
col... 1
alo 2
sch... 3

MOLOGY
oph... 1
ERINARY
York. 1
rican.. 2
state. 3

| No. | Honorary degrees conferred during year | LIBRARY | | SUMMARY | |
|----------------------|--|-----------|-----------|----------------|------------------|
| | | Volumes | Pamphlets | USED BY | |
| | | | | Grounds | Buildings |
| | 76 | 77 | 78 | 79 | 80 |
| LA ^a | 1 | 11 812 | ? | ? | ? |
| 1 N. Y. ^f | 2 | 1 951 | ? | \$12 000 .. | \$120 000 .. |
| 3 Alban | 3 | b 37 500 | ? | b 150 000 .. | 10 000 .. |
| 3 Colum | 4 | 27 500 | ? | | b 287 500 .. |
| 4 Corne | 5 | 21 | ? | | y 102 699 62 |
| 5 Buffal | 6 | 8 008 | ? | | |
| 6 New Y | 7 | | | | |
| 7 Syrac | | | | | |
| Tot..... | | 86 792 | 262 | \$162 000 .. | \$520 199 62 |
| Av..... | | 14 465 | 131 | \$81 000 .. | \$130 049 91 |
| MEDI ^c | 1 | b 5 000 | ? | b \$500 000 .. | b \$1 500 000 .. |
| 1 P. and | 2 | | | 185 000 .. | 315 409 36 |
| 2 Bellev | 3 | ? | ? | ? | ? |
| 3 Alban | 4 | 6 552 | ? | ? | ? |
| 4 Buffal | 5 | | ? | 35 500 .. | 138 000 .. |
| 5 L. I. E | 6 | 4 883 | 7 000 | ? | c 235 000 .. |
| 6 Home | 7 | 791 | 150 | 50 000 .. | 55 000 .. |
| 7 Wom. | 8 | c 833 | | 17 500 .. | 37 500 .. |
| 8 Wom. | 9 | 2 808 | 12 880 | c 30 000 .. | c 65 000 .. |
| 9 Eclect | 10 | | ? | 26 000 .. | 7 095 .. |
| 10 Syriat | 11 | d..... | ? | d..... | d..... |
| 11 Syriat | 12 | 4 459 | ? | 9 100 .. | 62 271 72 |
| 12 Polycl | 13 | 383 | ? | g 28 800 .. | g 40 000 .. |
| 13 Post g | 14 | ? | ? | 53 200 .. | 159 047 33 |
| 14 Corne | | | | ? | j 1 500 000 .. |
| Tot..... | | 25 189 | 55 030 | \$950 100 .. | \$4 134 323 41 |
| Av..... | | 3 149 | 11 006 | \$88 372 73 | \$318 024 88 |
| PHARM | 1 | 4 995 | 1 690 | d..... | d..... |
| 1 New Y | 2 | d..... | ? | d..... | d..... |
| 2 Syriat | 3 | 99 | 236 | f..... | f..... |
| 3 Alban | 4 | 128 | ? | h..... | h..... |
| 4 Buffal | 5 | 1 260 | ? | f..... | f..... |
| 5 Brook | | | | | |
| Tot..... | | 6 482 | 4 926 | \$50 000 .. | \$154 242 29 |
| Av..... | | 1 621 | 1 642 | \$50 000 .. | \$154 242 29 |
| DENTH | 1 | | | \$55 000 .. | \$65 000 .. |
| 1 N. Y. c | 2 | 159 | 238 | 14 000 .. | 27 000 .. |
| 2 Buffal | 3 | ? | ? | | |
| 3 N. Y. s | | | | | |
| Tot..... | | 159 | 238 | \$69 000 .. | \$92 000 .. |
| Av..... | | 159 | 238 | \$34 500 .. | \$46 000 .. |
| OPHTHA | 1 | | | ? | ? |
| 1 N. Y. c | | | | | |
| VETERI ^c | 1 | 500 | 500 | f..... | f..... |
| 1 New Y | 2 | 1 100 | 775 | | |
| 2 Ameri | 3 | e 1 309 | | 15 000 .. | \$135 909 40 |
| 3 N. Y. s | | | | | |
| Tot..... | | 2 909 | 1 275 | \$15 000 .. | \$135 909 40 |
| Av..... | | 970 | 638 | \$15 000 .. | \$135 909 40 |
| Prof.... | | 121 531 | 61 731 | \$1 246 100 .. | \$5 136 674 72 |
| Total of 3 & 4. | 9 | 716 558 | 240 240 | \$2 845 777 84 | \$10 488 606 71 |

a Given for university in table 1. b Taken from report for 1897, none having been reported since. c Taken from last year; property used in common by hospital and college. d No separate statistics reported for this department; included with data reported for arts department. e Students have access also to Cornell university library. f Rented. g Taken from last year. h Reported for medical department which uses building in common with the college of pharmacy. i Including grounds. j Amount reported for buildings, endowment and equipment; detailed statement not yet available.

OF PROPERTY

SCHOOL

| Furniture | Apparatus | Library | Museum | Total | No. |
|----------------------|-----------------------|----------------------|----------------------|-------------------------|-----------------------|
| 81 | 82 | 83 | 84 | 85 | |
| <i>k</i> \$6 446 85 | ? | \$25 372 10 | ----- | \$151 818 95 | 1 |
| 400 .. | ----- | 1 951 .. | ----- | 24 351 .. | 2 |
| <i>b</i> 18 750 .. | ----- | <i>b</i> 125 000 .. | ----- | <i>b</i> 581 250 .. | 3 |
| ? | ? | <i>d</i> ----- | <i>d</i> ----- | <i>g</i> 102 699 62 | 4 |
| 660 .. | \$25 .. | 50 .. | ----- | 735 .. | 5 |
| 3 474 84 | ----- | 18 105 09 | ----- | 21 579 93 | 6 |
| 50 .. | ----- | ----- | ----- | 50 .. | 7 |
| \$29 781 69 | \$25 .. | \$170 478 19 | ----- | \$682 484 50 | Tot. |
| \$4 963 62 | \$25 .. | \$34 095 64 | ----- | \$126 069 21 | Av. |
| <i>b</i> \$75 000 .. | <i>b</i> \$100 000 .. | <i>b</i> \$10 000 .. | <i>b</i> \$50 000 .. | <i>b</i> \$2 235 000 .. | 1 |
| <i>k</i> 12 509 .. | ? | ----- | ----- | 512 909 36 | 2 |
| ? | ? | ? | ? 30 000 .. | ? 65 000 .. | 3 |
| 10 000 .. | 9 488 54 | 15 000 .. | 10 000 .. | 217 988 54 | 4 |
| ? | ? | ? | ? | <i>c</i> 235 000 .. | 5 |
| 3 050 .. | 5 000 .. | 3 000 .. | ----- | <i>m</i> 116 050 .. | 6 |
| 1 000 .. | 500 .. | 250 .. | ----- | 56 750 .. | 7 |
| <i>c</i> 6 125 .. | ? | <i>c</i> 1 375 .. | ----- | <i>c</i> 102 500 .. | 8 |
| 2 530 .. | 7 950 .. | 2 518 .. | 1 629 .. | 47 722 .. | 9 |
| <i>d</i> ----- | <i>d</i> ----- | <i>d</i> ----- | <i>d</i> ----- | <i>d</i> ----- | 10 |
| 3 639 43 | 12 337 56 | 5 444 90 | 1 000 .. | 93 793 61 | 11 |
| <i>k</i> 7 811 38 | ----- | ----- | ----- | 76 611 38 | 12 |
| ? 13 737 63 | ? 8 000 .. | ? 600 .. | ? 2 000 .. | 236 584 96 | 13 |
| ? | ? | ? | ? | 1 500 000 .. | 14 |
| \$135 393 44 | \$143 276 10 | \$38 187 90 | \$94 629 .. | \$5 495 909 85 | Tot. |
| \$13 539 34 | \$20 468 01 | \$4 773 49 | \$15 771 50 | \$422 762 30 | Av. |
| \$17 279 45 | \$35 225 05 | \$7 741 91 | ----- | \$264 488 70 | 1 |
| <i>d</i> ----- | <i>d</i> ----- | <i>d</i> ----- | <i>d</i> ----- | <i>d</i> ----- | 2 |
| 250 .. | 1 037 .. | 162 .. | \$200 .. | 1 649 .. | 3 |
| ? 1 000 .. | ? 2 500 .. | 300 .. | ? 250 .. | 4 050 .. | 4 |
| <i>k</i> 4 533 45 | ? | 665 42 | ? | 5 198 87 | 5 |
| \$23 062 90 | \$38 762 05 | \$8 869 33 | \$450 .. | \$275 386 57 | Tot. |
| \$5 765 73 | \$12 920 68 | \$2 217 33 | \$225 .. | \$68 846 64 | Av. |
| \$8 000 .. | \$7 800 .. | ----- | \$500 .. | \$136 300 .. | 1 |
| 6 482 37 | 5 260 .. | \$385 .. | 1 588 50 | 54 715 87 | 2 |
| 1 768 21 | 1 542 84 | 300 .. | ----- | 3 611 05 | 3 |
| \$16 250 58 | \$14 602 84 | \$685 .. | \$2 088 50 | \$194 626 92 | Tot. |
| \$5 416 86 | \$4 867 61 | \$342 50 | \$1 044 25 | \$64 875 64 | Av. |
| ----- | \$500 .. | ----- | ----- | <i>m</i> \$100 500 .. | 1 |
| ----- | ----- | ----- | ----- | ----- | 2 |
| \$3 610 22 | \$11 836 22 | \$3 000 .. | \$5 000 .. | \$5 000 .. | 3 |
| ----- | ----- | ? 3 302 21 | 2 444 71 | 172 102 76 | Tot. |
| \$3 610 22 | \$11 836 22 | \$6 302 21 | \$7 444 71 | \$180 102 76 | 1 |
| \$3 610 22 | \$11 836 22 | \$3 151 11 | \$3 722 36 | \$90 051 38 | 2 |
| \$208 098 83 | \$209 002 21 | \$224 522 63 | \$104 612 21 | \$7 129 010 60 | 3 |
| \$428 747 45 | \$329 910 25 | \$1 245 968 34 | \$132 711 79 | \$15 471 722 88 | Prof. Total of 3 & 4. |

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cuse .. 11
clinic. 12
grad. 13
ell 14

ARMACY
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alo 2
sch.. 3

MOLOGY
oph... 1
ERINARY
York. 1
rican... 2
state. 3

k Including apparatus. *l* Of this \$3048.65 is the value of the R. F. Flower Library owned by Cornell university but placed in veterinary college for use of students. *m* Used in common by hospital and college.

| | | SUMMARY OF | | | | |
|-------------------|----|--|-----------------------|------------------------------|--------------------------------------|-------------------------|
| | | INVESTMENTS OWNED | | | | |
| No. | | Real estate owned but not used by school | Real estate mortgages | Corporation bonds and stocks | Notes and accounts payable to school | Cash on hand or in bank |
| | | 86 | 87 | 88 | 89 | 90 |
| LA' | 1 | ..... | ..... | \$5 000 .. | ..... | ..... |
| 1 N. Y. | 2 | ..... | ..... | ..... | \$230 .. | \$2 50 |
| 2 Alban | 3 | a | a | a | a | a |
| 3 Colum | 4 | a | a | a | a | a |
| 4 Corne | 5 | ..... | ..... | ..... | 35 .. | 1 172 86 |
| 5 Buffal | 6 | ..... | \$12 250 .. | 20 917 98 | 752 .. | 32 598 34 |
| 6 New Y | 7 | ..... | ..... | ..... | 600 .. | ..... |
| 7 Syrac |  | ..... | ..... | ..... | ..... | ..... |
| Tot ..... |  | ..... | \$12 250 .. | \$25 917 98 | \$1 617 .. | \$33 768 70 |
| Av ..... |  | ..... | \$12 250 .. | \$12 958 99 | \$404 25 | \$11 256 23 |
| MEDIC | 1 | a | a | a | a | a |
| 1 P. and | 2 | ..... | \$100 000 .. | \$10 000 .. | ..... | ..... |
| 2 Bellev | 3 | ..... | 5 000 .. | 1 000 .. | \$1 597 .. | \$3 288 52 |
| 3 Alban | 4 | ..... | ..... | ..... | ..... | 667 76 |
| 4 Buffal | 5 | ..... | ..... | ..... | ..... | ..... |
| 5 L. I. H | 6 | ..... | ..... | ..... | ..... | ..... |
| 6 Home | 7 | ..... | ..... | ..... | ..... | 1 488 86 |
| 7 Wom. | 8 | ..... | ..... | ..... | ..... | ..... |
| 8 Wom. | 9 | \$5 000 .. | ..... | ..... | 3 700 .. | ..... |
| 9 Eclect | 10 | a | a | a ..... | ..... | a |
| 10 Syriar | 11 | ..... | ..... | ..... | 77 19 | 2 242 26 |
| 11 Syrac | 12 | ..... | ..... | ..... | ..... | 314 61 |
| 12 Polycl | 13 | ..... | ..... | 200 .. | 132 50 | 645 76 |
| 13 Post g | 14 | ..... | ..... | ..... | ..... | ..... |
| 14 Corne |  | ..... | ..... | ..... | ..... | ..... |
| Tot | | \$5 000 .. | \$105 000 .. | \$11 200 .. | \$5 506 69 | \$13 642 77 |
| Av | | \$5 000 .. | \$52 500 .. | \$3 783 38 | \$1 376 67 | \$2 273 80 |
| PHARB | 1 | ..... | ..... | ..... | \$80 .. | \$236 61 |
| 1 New Y | 2 | a | a | a ..... | ..... | a |
| 2 Syriar | 3 | ..... | ..... | ..... | 60 .. | 4 208 67 |
| 3 Alban | 4 | ..... | ..... | ..... | 1 138 .. | 353 92 |
| 4 Buffal | 5 | ..... | ..... | ..... | ..... | 1 500 .. |
| 5 Brook |  | ..... | ..... | ..... | ..... | ..... |
| Tot ..... |  | ..... | ..... | ..... | \$1 278 .. | \$6 299 20 |
| Av ..... |  | ..... | ..... | ..... | \$426 .. | \$1 574 80 |
| DENTL | 1 | ..... | ..... | ..... | ..... | \$2 697 06 |
| 1 N. Y. c | 2 | ..... | ..... | ..... | ..... | ..... |
| 2 Buffal | 3 | ..... | ..... | ..... | \$3 965 59 | 5 86 |
| 3 N. Y. s |  | ..... | ..... | ..... | ..... | ..... |
| Tot ..... |  | ..... | ..... | ..... | \$3 965 59 | \$2 702 42 |
| Av ..... |  | ..... | ..... | ..... | \$3 965 59 | \$1 351 21 |
| OPHTHA | 1 | ..... | ..... | ..... | ..... | ..... |
| 1 N. Y. c | 1 | ..... | ..... | ..... | ..... | ..... |
| VETERI | 2 | ..... | ..... | ..... | ..... | ..... |
| 1 New Y | 3 | ..... | ..... | ..... | ..... | ..... |
| 2 Ameri |  | ..... | ..... | ..... | ..... | ..... |
| 3 N. Y. s |  | ..... | ..... | ..... | ..... | ..... |
| Tot ..... |  | ..... | ..... | ..... | ..... | ..... |
| Av ..... |  | ..... | ..... | ..... | ..... | ..... |
| Prof | | \$5 000 .. | \$117 250 .. | \$37 117 98 | \$12 367 28 | \$56 413 09 |
| Total of 3 & 4... | | \$1 183 099 89 | \$2 917 644 37 | \$2 859 497 17 | \$77 391 17 | \$519 321 95 |

a No separate statistics reported for this department; included with data reported for arts department.

PROPERTY, *concluded*

| BY SCHOOL | | Total school property | Debts at end of year | Net property | No. | |
|----------------|-----------------|-----------------------|----------------------|-----------------|---------------|-------------|
| Other property | Total | | | | | |
| 91 | 92 | 93 | 94 | 95 | | |
| ..... | \$5 000 .. | \$156 818 95 | ..... | \$156 818 95 | 1 | LAW |
| ..... | 232 50 | 24 583 50 | \$10 000 .. | 14 588 50 | 2 | . univ. 1 |
| ..... | a | c581 250 .. | ..... | c581 250 .. | 3 | ny 2 |
| a | a | d102 699 62 | ..... | d102 699 62 | 4 | mbia... 3 |
| ..... | 1 207 86 | 1 942 86 | ..... | 1 942 86 | 5 | ell 4 |
| ..... | 66 513 32 | 88 093 25 | ..... | 88 093 25 | 6 | alo 5 |
| ..... | 600 .. | 650 .. | ..... | 650 .. | 7 | York. 6 |
| ..... | \$73 553 68 | \$956 038 18 | \$10 000 .. | \$946 038 18 | Tot. | cuse .. 7 |
| ..... | \$14 710 74 | \$136 576 88 | \$10 000 .. | \$135 148 31 | Av. | |
| a | a | c2 235 000 .. | ..... | c2 235 000 .. | 1 | DICINE |
| ..... | \$110 000 .. | 622 969 36 | \$145 000 .. | 477 969 36 | 2 | id S... 1 |
| \$1 500 .. | 17 380 52 | 1 82 380 52 | 12 000 .. | 1 70 380 52 | 3 | . univ. 2 |
| ..... | 667 76 | 218 656 30 | 33 843 90 | 184 812 40 | 4 | ny 3 |
| b30 000 .. | b30 000 .. | b265 000 .. | b30 000 .. | b235 000 .. | 5 | alo 4 |
| ..... | 1 488 86 | 116 050 .. | ..... | e116 050 .. | 6 | hosp... 5 |
| ..... | ..... | 58 238 86 | 30 711 54 | 27 527 32 | 7 | oop... 6 |
| 4 000 .. | 12 700 .. | b102 500 .. | b50 000 .. | b52 500 .. | 8 | t. hos. 7 |
| ..... | ..... | 60 422 .. | 25 400 .. | 35 022 .. | 9 | t. in... 8 |
| a | a | a ..... | ..... | a | 10 | etic.... 9 |
| ..... | 2 319 45 | 96 113 06 | ..... | 96 113 06 | 11 | un. 10 |
| ..... | 314 61 | 76 925 99 | 19 588 80 | 57 337 19 | 12 | cuse ... 11 |
| ..... | 978 26 | 237 563 22 | 141 005 63 | 96 557 59 | 13 | clinic. 12 |
| ..... | ..... | 1 500 000 .. | ..... | 1 500 000 .. | 14 | . grad. 13 |
| \$35 500 .. | \$175 849 46 | \$5 671 759 31 | \$487 549 87 | \$5 184 209 44 | Tot. | ell 14 |
| \$11 833 33 | \$19 538 83 | \$436 289 18 | \$54 172 21 | \$398 785 34 | Av. | |
| ..... | \$316 61 | \$264 805 31 | \$138 350 .. | \$126 455 31 | 1 | ARMACY |
| a | a | a | a | a | 2 | York. 1 |
| ..... | 4 268 67 | 5 917 67 | ..... | 5 917 67 | 3 | un 2 |
| ..... | 1 491 92 | 5 541 92 | 385 .. | 5 176 92 | 4 | ny ... 3 |
| ..... | 1 500 .. | 6 698 87 | ..... | 6 698 87 | 5 | alo 4 |
| ..... | \$7 577 20 | \$282 963 77 | \$138 715 .. | \$144 248 77 | Tot. | klyn... 5 |
| ..... | \$1 894 30 | \$70 740 94 | \$69 357 50 | \$36 062 19 | Av. | |
| ..... | \$2 697 06 | \$138 997 06 | \$80 000 .. | \$58 997 06 | 1 | NTISTRY |
| ..... | ..... | 54 715 87 | 34 500 .. | 20 215 87 | 2 | . col... 1 |
| ..... | 3 970 95 | 7 582 .. | 10 873 26 | ..... | 3 | alo 2 |
| ..... | \$6 668 01 | \$201 294 93 | \$125 373 26 | \$79 212 93 | Tot. | . sch... 3 |
| ..... | \$3 334 01 | \$67 098 31 | \$41 791 09 | \$39 606 47 | Av. | |
| ..... | ..... | c100 500 .. | ..... | c100 500 .. | 1 | MOLOGY |
| ..... | ..... | ..... | ..... | ..... | 1 | . oph... 1 |
| ..... | ..... | \$8 000 .. | ..... | \$8 000 .. | 2 | ERINARY |
| ..... | ..... | 172 102 76 | ..... | 172 102 76 | 3 | York. 1 |
| ..... | ..... | \$180 102 76 | ..... | \$180 102 76 | Tot. | rican.. 2 |
| ..... | ..... | \$90 051 38 | ..... | \$90 051 38 | Av. | . state. 3 |
| \$35 500 .. | \$263 648 35 | \$7 392 658 95 | \$761 638 13 | \$6 634 312 08 | Prof. | |
| \$3 067 488 15 | \$10 124 442 70 | \$25 596 165 08 | \$1 046 776 72 | \$24 552 679 62 | Tot. of 3 & 4 | |

b Taken from last year; property used in common by hospital and college. c Taken from report for 1897; no figures having been reported since. d Value of buildings only as reported in 1898; other items included with data reported for arts department. e Property owned and used in common by hospital and college. f Deficit of \$3291.26 existing at date of report.

| | | FINANCIAL | | | | |
|----------------------|----|-----------------|---------------------|-------------|-------------|------------------------------|
| | | RECEIPTS DURING | | | | |
| No. | | Tuition fees | Fees for professors | Room rent | Board | Other receipts from students |
| | | 96 | 97 | 98 | 99 | 100 |
| LA' | | | | | | |
| 1 N. Y. s | 1 | \$54 680 .. | ..... | ..... | ..... | ..... |
| 2 Alban | 2 | 7 276 .. | ..... | ..... | ..... | \$123 86 |
| 3 Colum | 3 | a 50 228 75 | ..... | ..... | ..... | a 2 475 .. |
| 4 Corne | 4 | b ..... | ..... | ..... | ..... | b |
| 5 Buffal | 5 | 10 530 .. | ..... | \$11 .. | ..... | ..... |
| 6 New Y | 6 | 69 856 42 | ..... | ..... | ..... | 2 189 80 |
| 7 Syrac | 7 | 5 207 29 | ..... | ..... | ..... | ..... |
| Tot | | \$197 778 46 | ..... | \$11 .. | ..... | \$4 738 16 |
| Av | | \$32 963 08 | ..... | \$11 .. | ..... | \$1 579 39 |
| MEDIC | | | | | | |
| 1 P. and | 1 | a \$117 614 39 | ..... | ..... | ..... | a \$1 075 .. |
| 2 Bellev | 2 | 65 745 .. | ..... | ..... | ..... | ..... |
| 3 Alban | 3 | 15 177 48 | \$646 67 | ..... | ..... | ..... |
| 4 Buffal | 4 | 22 922 11 | ..... | ..... | ..... | 30 .. |
| 5 L. I. H | 5 | 30 868 .. | ..... | ..... | ..... | 3 608 07 |
| 6 Home | 6 | 12 771 56 | ..... | ..... | ..... | 1 311 .. |
| 7 Wom. | 7 | 2 345 85 | ..... | ..... | ..... | ..... |
| 8 Wom. | 8 | 8 360 .. | ..... | ..... | ..... | 171 04 |
| 9 Eclect | 9 | 5 224 .. | 1 780 .. | ..... | ..... | ..... |
| 10 Syriar | 10 | 2 114 10 | ..... | ..... | ..... | ..... |
| 11 Syrac | 11 | 10 572 35 | ..... | ..... | \$181 .. | 376 65 |
| 12 Polycl | 12 | 19 785 .. | 3 628 50 | ..... | ..... | 468 25 |
| 13 Post g | 13 | 30 548 50 | ..... | ..... | ..... | 715 .. |
| 14 Corne | 14 | b ..... | ..... | ..... | ..... | b |
| Tot | | \$343 997 73 | \$6 055 17 | ..... | \$181 .. | \$7 755 01 |
| Av | | \$26 461 36 | \$2 018 39 | ..... | \$131 .. | \$969 38 |
| PHARM | | | | | | |
| 1 New Y | 1 | \$27 535 01 | ..... | ..... | ..... | \$1 215 .. |
| 2 Syriar | 2 | 785 70 | ..... | ..... | \$57 .. | 204 12 |
| 3 Alban | 3 | 3 215 .. | \$600 .. | ..... | ..... | 314 |
| 4 Buffal | 4 | 5 127 .. | ..... | ..... | ..... | 73 88 |
| 5 Brook | 5 | 5 879 .. | ..... | ..... | ..... | 400 .. |
| Tot | | \$42 542 61 | \$600 .. | ..... | \$57 .. | \$2 207 .. |
| Av | | \$8 508 52 | \$600 .. | ..... | \$57 .. | \$441 40 |
| DENTIL | | | | | | |
| 1 N. Y. c | 1 | \$33 855 .. | ..... | ..... | ..... | ..... |
| 2 Buffal | 2 | 18 893 .. | ..... | ..... | ..... | \$1 795 .. |
| 3 N. Y. s | 3 | 5 710 .. | \$150 .. | ..... | ..... | ..... |
| Tot | | \$58 458 .. | \$150 .. | ..... | ..... | \$1 795 .. |
| Av | | \$19 486 .. | \$150 .. | ..... | ..... | \$1 795 .. |
| OPHTHA' | | | | | | |
| 1 N. Y. c | 1 | \$937 50 | ..... | ..... | ..... | ..... |
| VETERI' | | | | | | |
| 1 New Y | 1 | \$2 270 .. | ..... | ..... | ..... | \$1 50 |
| 2 Americ | 2 | 2 000 .. | ..... | ..... | ..... | 250 .. |
| 3 N. Y. s | 3 | ..... | ..... | ..... | ..... | 1 889 90 |
| Tot | | \$4 270 .. | ..... | ..... | ..... | \$2 141 40 |
| Av | | \$2 135 .. | ..... | ..... | ..... | \$713 80 |
| Prof | | \$647 984 30 | \$6 805 17 | \$11 .. | \$188 .. | \$18 636 57 |
| Total of 3 & 4... | | \$916 213 33 | \$7 224 62 | \$15 502 50 | \$45 483 60 | \$40 802 14 |

a Taken from report for 1897; no figures having been reported since. b No separate statistics reported for this department; included with data reported for arts department.

TABLE 3—STATISTICS OF PROFESSIONAL SCHOOLS

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| STATEMENT | | | | No. | |
|-----------------------|--------------------|-------------------|----------------|-----------------|-------------|
| ING YEAR | | | | | |
| Income of investments | Gifts and bequests | All other sources | Total | | |
| 101 | 102 | 103 | 104 | | |
| \$66 .. | \$100 .. | ..... | \$54 846 .. | 1 | LAW |
| ..... | ..... | ..... | 7 399 36 | 2 | . univ. 1 |
| ..... | ..... | ..... | a 52 703 75 | 3 | ny 2 |
| b | b | b | c 16 586 96 | 4 | mbia.. 3 |
| ..... | ..... | ..... | 11 050 07 | 5 | ell 4 |
| 2 043 56 | ..... | \$509 07 | 74 116 13 | 6 | lo 5 |
| ..... | ..... | 76 35 | 5 207 29 | 7 | York. 6 |
| ..... | ..... | ..... | ..... |  | cuse .. 7 |
| \$2 109 56 | \$100 .. | \$585 42 | \$221 909 56 | Tot. | |
| \$1 654 78 | \$100 .. | \$292 71 | \$31 701 37 | Av. | |
| ..... | \$2 500 .. | ..... | a \$118 689 39 | 1 | DICINE |
| ..... | ..... | ..... | 68 245 .. | 2 | ad S... 1 |
| \$360 .. | ..... | \$11 753 48 | 27 937 58 | 3 | . univ. 2 |
| ..... | ..... | 5 536 86 | 28 488 97 | 4 | ny 3 |
| ..... | ..... | ..... | 84 476 07 | 5 | lo 4 |
| ..... | ..... | ..... | 14 082 50 | 6 | hosp.. 5 |
| ..... | ..... | 1 052 30 | 3 397 65 | 7 | ecop... 6 |
| ..... | ..... | ..... | 8 531 04 | 8 | t. hos. 7 |
| ..... | 2 240 .. | 1 400 .. | 10 644 .. | 9 | t. in... 8 |
| 7 763 25 | ..... | 556 90 | 11 041 90 | 10 | stic.... 9 |
| ..... | 10 .. | 3 116 75 | 14 167 35 | 11 | un. 10 |
| ..... | ..... | 4 540 02 | 27 903 52 | 12 | cuse ... 11 |
| ..... | ..... | 1 516 42 | 82 779 92 | 13 | clinic. 12 |
| b | b | b | c 36 409 66 | 14 | . grad. 13 |
| ..... | ..... | ..... | ..... |  | ell 14 |
| \$8 123 25 | \$4 750 .. | \$29 572 73 | \$436 794 55 | Tot. | |
| \$4 061 63 | \$1 583 33 | \$3 696 59 | \$31 199 61 | Av. | |
| ..... | \$589 72 | \$28 178 94 | \$57 519 57 | 1 | ARMACY |
| \$670 59 | ..... | 131 35 | 1 848 76 | 2 | York. 1 |
| 91 06 | 45 09 | 1 393 47 | 6 158 62 | 3 | an 2 |
| ..... | 50 .. | 1 416 19 | 6 667 07 | 4 | ny 3 |
| ..... | ..... | 3 000 .. | 9 279 .. | 5 | lo 4 |
| ..... | ..... | ..... | ..... |  | klyn.. 5 |
| \$761 65 | \$684 81 | \$34 619 95 | \$81 473 02 | Tot. | |
| \$380 83 | \$228 27 | \$6 923 99 | \$16 294 60 | Av. | |
| ..... | ..... | \$9 259 06 | \$43 114 06 | 1 | NTISTRY |
| ..... | ..... | 5 694 86 | 26 382 86 | 2 | . col... 1 |
| ..... | ..... | 1 028 02 | 6 888 02 | 3 | alo 2 |
| ..... | ..... | ..... | ..... |  | . sch.. 3 |
| ..... | ..... | \$15 981 94 | \$76 384 94 | Tot. | |
| ..... | ..... | \$5 327 31 | \$25 461 65 | Av. | |
| ..... | ..... | ..... | \$937 50 | 1 | MOLOGY |
| ..... | ..... | ..... | ..... |  | . oph.. 1 |
| ..... | ..... | \$1 777 55 | \$4 049 06 | 1 | ERINARY |
| ..... | ..... | ..... | 2 250 .. | 2 | York. 1 |
| ..... | ..... | 25 820 23 | 27 710 13 | 3 | rican.. 2 |
| ..... | ..... | ..... | ..... |  | . state. 3 |
| ..... | ..... | \$27 597 78 | \$34 009 18 | Tot. | |
| ..... | ..... | \$13 798 89 | \$11 336 39 | Av. | |
| \$10 994 46 | \$5 534 81 | \$108 357 82 | \$851 508 75 | Prof. | |
| \$409 289 95 | \$337 459 51 | \$350 925 40 | \$2 175 897 67 | Total of 3 & 4. | |

a. Estimate made of the total receipts only; the separate items were not estimated.

| | | FINANCIAL STATE- | | | |
|---------------------|----|------------------------|-------------|--------------|--------------|
| | | EXPENDITURES DUE- | | | |
| No. | | ADDITIONS, IMPROVEMENT | | | |
| | | Grounds | Buildings | Furniture | Apparatus |
| | | 105 | 106 | 107 | 108 |
| LA | | | | | |
| 1 N. Y. | 1 | ..... | \$667 60 | ..... | ..... |
| 2 Alban | 2 | ..... | 86 85 | \$45 .. | ..... |
| 3 Colum | 3 | a \$150 .. | a500 .. | a100 .. | ..... |
| 4 Corne | 4 | b..... | ..... | ..... | ..... |
| 5 Buffal | 5 | ..... | ..... | ..... | ..... |
| 6 New Y | 6 | ..... | ..... | 964 95 | ..... |
| 7 Syrac | 7 | ..... | ..... | ..... | ..... |
| Tot | | \$150 .. | \$1 204 45 | \$1 109 95 | ..... |
| Av | | \$150 .. | \$401 48 | \$369 98 | ..... |
| MEDIC | | | | | |
| 1 P. and | 1 | a \$250 .. | ? | a \$1 000 .. | a \$5 000 .. |
| 2 Bellev | 2 | ..... | \$1 125 24 | ..... | ..... |
| 3 Alban | 3 | ..... | 1 386 08 | ? | 188 07 |
| 4 Buffal | 4 | ..... | 4 810 05 | 140 27 | 2 649 99 |
| 5 L. I. B | 5 | ..... | ..... | ..... | ..... |
| 6 Home | 6 | ..... | 777 10 | ..... | \$29 50 |
| 7 Wom. | 7 | ..... | ..... | \$61 19 | 246 31 |
| 8 Wom. | 8 | ..... | 397 81 | 300 69 | 1 248 56 |
| 9 Eclect | 9 | ..... | 600 .. | 240 .. | 300 .. |
| 10 Syriar | 10 | 763 20 | 889 25 | ? | 501 85 |
| 11 Syrac | 11 | ..... | 366 69 | 29 54 | 1 342 56 |
| 12 Polycl | 12 | ..... | 382 12 | 57 68 | 863 16 |
| 13 Post & | 13 | ..... | ..... | 30 39 | 2 75 |
| 14 Corne | 14 | b..... | ..... | ..... | ..... |
| Tot | | \$1 013 20 | \$10 734 34 | \$2 759 76 | \$12 670 25 |
| Av | | \$506 60 | \$1 192 70 | \$344 97 | \$1 151 84 |
| PHARM | | | | | |
| 1 New Y | 1 | ..... | \$50 21 | \$46 .. | \$1 000 .. |
| 2 Syriar | 2 | \$254 40 | 222 30 | ..... | 41 80 |
| 3 Alban | 3 | ..... | ..... | ..... | ..... |
| 4 Buffal | 4 | ..... | ..... | ..... | 187 04 |
| 5 Brook | 5 | ..... | ..... | ..... | 602 55 |
| Tot | | \$254 40 | \$272 51 | \$46 .. | \$1 831 89 |
| Av | | \$254 40 | \$136 26 | \$46 .. | \$457 85 |
| DENTU | | | | | |
| 1 N. Y. & | 1 | ..... | \$331 68 | \$28 63 | \$548 51 |
| 2 Buffal | 2 | \$1 000 .. | 384 75 | 137 50 | 68 75 |
| 3 N. Y. & | 3 | ..... | ..... | 3 .. | 26 47 |
| Tot | | \$1 000 .. | \$716 43 | \$169 13 | \$643 73 |
| Av | | \$1 000 .. | \$358 22 | \$56 38 | \$214 58 |
| OPHTHA | | | | | |
| 1 N. Y. & | 1 | ..... | ..... | ..... | ..... |
| VETERI | | | | | |
| 1 New Y | 1 | ..... | \$90 88 | \$50 .. | \$34 02 |
| 2 Americ | 2 | ..... | 300 .. | ..... | 50 .. |
| 3 N. Y. & | 3 | \$88 96 | 232 06 | 170 81 | 1 295 09 |
| Tot | | \$88 96 | \$622 94 | \$220 81 | \$1 379 11 |
| Av | | \$88 96 | \$207 65 | \$110 41 | \$459 70 |
| Prof | | \$2 506 56 | \$13 550 87 | \$4 305 65 | \$16 524 48 |
| Total of 3 & 4.. | | \$8 892 66 | \$71 732 54 | \$10 635 65 | \$41 661 58 |

a Taken from report for 1897; no figures having been reported since. b No separate statistics reported for this department; included with data reported for arts department.

TABLE 3—STATISTICS OF PROFESSIONAL SCHOOLS

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MENT, continued

ING YEAR

AND REPAIRS

| | | | | | No. |
|-------------|------------|--------------------------|--------------------|--|-----------------|
| Library | Museum | Salaries for instruction | Fees to professors | Salaries paid other officers and employees | |
| 109 | 110 | 111 | 112 | 113 | |
| \$148 .. | ..... | \$22 100 .. | \$3 525 .. | \$3 293 65 | 1 |
| 321 .. | ..... | 4 625 61 | ..... | 552 06 | 2 |
| a 1 000 .. | ..... | a 65 000 .. | ..... | ..... | 3 |
| ..... | ..... | b ..... | ..... | ..... | 4 |
| ..... | ..... | 6 578 .. | ..... | ..... | 5 |
| 12 012 17 | ..... | 30 092 .. | ..... | 3 761 21 | 6 |
| ..... | ..... | 4 827 .. | ..... | ..... | 7 |
| \$18 481 17 | ..... | \$133 222 61 | \$3 525 .. | \$7 606 91 | Tot. |
| \$3 370 29 | ..... | \$22 203 77 | \$3 525 .. | \$2 535 64 | Av. |
| ..... | a \$500 .. | a \$99 780 .. | ..... | ..... | 1 |
| ..... | ..... | 50 700 .. | ..... | \$9 191 55 | 2 |
| ..... | ..... | 11 432 43 | \$646 67 | 1 069 84 | 3 |
| \$396 96 | ..... | 6 659 26 | 140 .. | 3 768 40 | 4 |
| ..... | ..... | 25 303 27 | ..... | 3 368 68 | 5 |
| ..... | ..... | ..... | 2 269 63 | 1 909 82 | 6 |
| ..... | ..... | 1 046 .. | ..... | 195 .. | 7 |
| 289 99 | ..... | 10 875 .. | ..... | 2 279 17 | 8 |
| 50 06 | 50 .. | 2 600 .. | 1 780 .. | 700 .. | 9 |
| 459 86 | ..... | 7 202 52 | ..... | 1 156 08 | 10 |
| ..... | ..... | 2 870 .. | ..... | 1 739 70 | 11 |
| ..... | ..... | ..... | 3 628 50 | 5 553 23 | 12 |
| ..... | ..... | b | 1 217 50 | 8 065 19 | 13 |
| ..... | ..... | ..... | ..... | ..... | 14 |
| \$1 106 81 | \$655 .. | \$218 528 47 | \$9 682 30 | \$39 596 66 | Tot. |
| \$299 20 | \$275 .. | \$21 852 85 | \$1 613 72 | \$3 299 73 | Av. |
| \$138 94 | ..... | \$16 611 .. | ..... | \$4 060 .. | 1 |
| ..... | ..... | 665 82 | ..... | 528 04 | 2 |
| 5 .. | ..... | 2 000 .. | \$600 .. | 220 .. | 3 |
| 4 60 | ..... | 2 884 .. | ..... | 187 .. | 4 |
| 46 78 | ..... | ..... | ..... | 3 400 .. | 5 |
| \$195 32 | ..... | \$22 160 82 | \$600 .. | \$8 395 04 | Tot. |
| \$48 83 | ..... | \$5 540 21 | \$600 .. | \$1 679 01 | Av. |
| ..... | ..... | \$9 338 54 | \$16 750 .. | \$2 403 24 | 1 |
| ..... | ..... | 15 885 83 | ..... | 1 887 17 | 2 |
| ..... | ..... | 466 .. | 150 .. | 515 .. | 3 |
| | | | | | |
| ..... | ..... | \$25 699 37 | \$16 900 .. | \$4 805 41 | Tot. |
| ..... | ..... | \$8 563 46 | \$8 450 .. | \$1 601 80 | Av. |
| ..... | ..... | \$845 52 | ..... | ..... | 1 |
| ..... | ..... | \$354 02 | ..... | \$988 .. | 1 |
| ..... | ..... | ..... | \$1 055 .. | 400 .. | 2 |
| a \$714 61 | \$100 06 | 16 250 .. | ..... | 3 127 50 | 3 |
| \$714 61 | \$100 06 | \$16 604 02 | \$1 055 .. | \$4 515 50 | Tot. |
| \$714 61 | \$100 06 | \$3 302 01 | \$1 055 .. | \$1 505 17 | Av. |
| \$15 587 91 | \$650 06 | \$417 051 81 | \$31 762 30 | \$64 919 52 | Prof. |
| \$30 256 40 | \$2 598 54 | \$993 218 09 | \$32 184 78 | \$143 736 98 | Total of 3 & 4. |

LAW
 . univ. 1
 ny 2
 mbia.. 3
 ell 4
 lo 5
 York. 6
 cuse .. 7

DICINE
 id S... 1
 . univ. 2
 ny 3
 lo 4
 hosp.. 5
 eop... 6
 . hos. 7
 . in... 8
 .tic... 9
 un. ... 10
 cuse .. 11
 clinic. 12
 . grad. 13
 ell 14

ARMACY
 York. 1
 un 2
 ny ... 3
 alo 4
 klyn .. 5

ETISTRY
 . col... 1
 alo 2
 . sch.. 3

MOLOGY
 . oph.. 1
 ERINARY
 York. 1
 rican.. 2
 . state. 3

o Of this \$707.87 was expended by Cornell university for books for use of veterinary students.

| | | FINANCIAL STATE- | | | |
|-------------------------------------|----|---------------------------------|------------------------------|--------------------|-------------------|
| | | EXPENDITURES DUR- | | | |
| No. | | Prizes, scholar- ships, etc. | Given or lent to students | Fuel and lights | Insurance |
| LA. | | 114 | 115 | 116 | 117 |
| 1 N. Y. 1 | 1 | \$575 .. | ..... | \$1 488 60 | \$151 26 |
| 2 Alban | 2 | ..... | ..... | 160 .. | 68 40 |
| 3 Colum | 3 | ..... | ..... | \$3 500 .. | ..... |
| 4 Corne | 4 | ..... | ..... | ..... | ..... |
| 5 Buffal | 5 | 350 .. | ..... | ..... | ..... |
| 6 New Y | 6 | 2 025 .. | ..... | 863 12 | 9 50 |
| 7 Syrac | 7 | ..... | ..... | ..... | ..... |
| Tot..... | | \$2 950 .. | ..... | \$5 511 72 | \$229 16 |
| Av..... | | \$983 33 | ..... | \$1 377 93 | \$76 39 |
| MEDIC | | | | | |
| 1 P. and | 1 | \$41 300 .. | ..... | \$69 500 .. | ..... |
| 2 Bellev | 2 | ..... | ..... | 1 832 58 | \$187 50 |
| 3 Alban | 3 | 360 .. | ..... | 806 82 | 150 70 |
| 4 Buffal | 4 | ..... | ..... | 1 067 84 | 347 50 |
| 5 L. I. H | 5 | ..... | ..... | 761 03 | ..... |
| 6 Home | 6 | ..... | ..... | 359 54 | 42 50 |
| 7 Wom. | 7 | ..... | ..... | 1 133 93 | ..... |
| 8 Wom. | 8 | 260 .. | ..... | 400 .. | 60 .. |
| 9 Eclect | 9 | ..... | ..... | ..... | ..... |
| 10 Syriac | 10 | ..... | \$824 .. | ..... | 60 .. |
| 11 Syriac | 11 | ..... | ..... | 945 76 | ..... |
| 12 Polycl | 12 | ..... | ..... | 1 431 62 | 238 67 |
| 13 Post g | 13 | ..... | ..... | 2 149 59 | 58 58 |
| 14 Corne | 14 | ..... | ..... | ..... | ..... |
| Tot..... | | \$1 920 .. | \$824 .. | \$20 188 25 | \$1 195 50 |
| Av..... | | \$640 .. | \$824 .. | \$1 835 30 | 149 44 |
| PHARM | | | | | |
| 1 New Y | 1 | \$300 .. | ..... | \$428 62 | \$22 33 |
| 2 Syriac | 2 | ..... | ..... | ..... | ..... |
| 3 Alban | 3 | 80 .. | ..... | 11 08 | 13 26 |
| 4 Buffal | 4 | 75 .. | ..... | ..... | ..... |
| 5 Brook | 5 | 75 .. | ..... | 51 52 | 3 75 |
| Tot..... | | \$530 .. | ..... | \$491 22 | \$38 34 |
| Av..... | | \$132 50 | ..... | \$163 74 | \$12 78 |
| DENTH | | | | | |
| 1 N. Y. c | 1 | \$108 .. | ..... | \$540 12 | \$333 63 |
| 2 Buffal | 2 | ..... | ..... | 749 24 | ..... |
| 3 N. Y. s | 3 | ..... | ..... | ..... | 13 80 |
| Tot..... | | \$108 .. | ..... | \$1 289 36 | \$347 43 |
| Av..... | | \$108 .. | ..... | \$644 68 | \$178 72 |
| OPHTHA. | | | | | |
| 1 N. Y. c | 1 | ..... | ..... | ..... | ..... |
| VETERIN | | | | | |
| 1 New Y | 1 | \$165 .. | ..... | \$177 43 | \$24 .. |
| 2 Americ | 2 | 150 .. | ..... | 180 .. | 25 .. |
| 3 N. Y. s | 3 | 25 .. | ..... | 1 028 28 | 171 .. |
| Tot..... | | \$340 .. | ..... | \$1 385 71 | \$220 .. |
| Av..... | | \$113 33 | ..... | \$461 90 | \$73 33 |
| Prof..... | | \$5 848 .. | \$824 .. | \$28 866 26 | \$2 090 43 |
| Totals of 3 & 4..... | | \$32 029 24 | \$25 903 75 | \$64 137 04 | \$5 270 77 |

α No separate statistics reported for this department; included with data reported for arts department. β Figures taken from report for 1897; none having been reported since. γ Cornell university veterinary prize.

TABLE 3—STATISTICS OF PROFESSIONAL SCHOOLS

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| MENT, concluded | | | | No. |
|---------------------|-------------------|--------------------|----------------|--------------------|
| ING YEAR, concluded | | | | |
| Interest on debt | Other incidentals | All other purposes | Total | |
| 118 | 119 | 120 | 121 | |
| ..... | \$7 961 52 | \$14 935 37 | \$54 846 .. | 1 |
| \$500 .. | 805 73 | 284 72 | 7 399 36 | 2 |
| ..... | ..... | ..... | b 70 250 .. | 3 |
| ..... | ..... | a | d 17 790 72 | 4 |
| ..... | 2 949 21 | ..... | 9 877 21 | 5 |
| ..... | 5 016 33 | 18 399 12 | 72 643 40 | 6 |
| ..... | ..... | 380 19 | 5 207 19 | 7 |
| \$500 .. | \$16 732 79 | \$33 999 40 | \$238 013 88 | Tot. |
| \$500 .. | \$4 183 20 | \$8 499 85 | \$34 001 98 | Av. |
| \$2 050 .. | \$8 844 34 | ..... | b \$117 330 .. | 1 |
| 840 .. | 2 565 40 | ..... | 73 931 21 | 2 |
| 2 051 25 | 185 80 | ..... | 19 904 06 | 3 |
| ..... | ..... | \$5 636 90 | 27 833 71 | 4 |
| 4 429 49 | 2 066 52 | 5 804 12 | 34 476 07 | 5 |
| 665 74 | ..... | 1 039 41 | 14 082 50 | 6 |
| ..... | ..... | 175 07 | 3 691 39 | 7 |
| 1 810 .. | 1 500 .. | 1 039 33 | 17 824 48 | 8 |
| ..... | 398 50 | 280 .. | 10 644 .. | 9 |
| ..... | ..... | 131 .. | 11 041 90 | 10 |
| 256 58 | 1 943 23 | 4 110 98 | 11 925 09 | 11 |
| 6 389 44 | 1 433 16 | 13 684 62 | 27 589 41 | 12 |
| ..... | ..... | 6 398 72 | 25 795 32 | 13 |
| ..... | ..... | a | d 36 017 68 | 14 |
| \$17 992 50 | \$19 966 95 | \$38 250 15 | \$432 086 82 | Tot. |
| \$2 249 06 | \$2 370 87 | \$3 825 02 | \$30 863 34 | Av. |
| \$6 530 45 | ..... | \$28 015 41 | \$57 202 96 | 1 |
| ..... | \$79 60 | 57 .. | 1 848 96 | 2 |
| ..... | ..... | 902 52 | 3 830 86 | 3 |
| ..... | 1 275 01 | 562 50 | 5 175 15 | 4 |
| ..... | ..... | 1 684 14 | 5 863 74 | 5 |
| \$6 530 45 | \$1 354 61 | \$31 221 57 | \$73 921 67 | Tot. |
| \$6 530 45 | \$677 31 | \$6 244 31 | \$14 784 33 | Av. |
| \$4 100 .. | \$1 230 52 | \$4 704 13 | \$40 417 .. | 1 |
| 1 700 .. | ..... | 4 569 62 | 26 382 86 | 2 |
| 408 55 | 402 49 | 4 746 08 | 6 731 39 | 3 |
| \$6 208 55 | \$1 633 01 | \$14 019 83 | \$73 531 25 | Tot. |
| \$2 069 52 | \$816 51 | \$4 673 28 | \$24 510 42 | Av. |
| ..... | \$101 .. | ..... | \$946 52 | 1 |
| ..... | ..... | \$2 165 70 | \$4 049 05 | 1 |
| ..... | \$45 .. | 45 .. | 2 250 .. | 2 |
| ..... | 792 69 | 5 390 85 | 29 386 91 | 3 |
| ..... | ..... | ..... | ..... | Tot. |
| ..... | \$837 69 | \$7 601 55 | \$35 685 96 | Av. |
| ..... | \$418 85 | \$2 533 85 | \$11 895 32 | |
| \$31 231 50 | \$39 626 05 | \$125 092 50 | \$854 186 10 | Prof. |
| \$38 248 19 | \$62 353 83 | \$397 607 38 | \$2 009 275 77 | Total of 3 & 4. |

d An estimate was made of the total expenditures only; the separate items were not estimated.

TABLE 4

[For general explanatory notes see page 191]

STATISTICS OF OTHER PROFESSIONAL AND TECHNICAL SCHOOLS

REPORTING TO THE

University of the State of New York

FOR THE

Year ending 30 June 1899

| No. | NAME | LOCATION | INCORPORATED | |
|--------------------|---|------------------------------|---------------------------|----------|
| | | a City or village and county | By regents or legislature | Date |
| THEOLOGY | | | | |
| | 1 | 2 | 3 | 4 |
| 1 Hartwick.. | 1 Hartwick seminary, theological dep't..... | Hartwick Sem., Otsego. | R | 13 Ag 16 |
| 2 Hamilton... 2 | Hamilton theological seminary..... | Hamilton, Madison.... | L | 5 Mr 19 |
| 3 Auburn.... | Auburn theological seminary..... | Auburn, Cayuga..... | L | 14 Ap 20 |
| 4 Gen. P. E.. | General theological sem. of the P. E. church..... | New York..... | L | 5 Ap 22 |
| 5 Union..... | Union theological seminary..... | New York..... | L | 27 Mr 29 |
| 6 German..... | German Martin Luther seminary..... | Buffalo, Erie..... | L | 26 Ag 53 |
| 7 Rochester.. | Rochester theological seminary..... | Rochester, Monroe.... | L | 15 Ap 54 |
| 8 Canton..... | St Lawrence university, Canton theol. sch..... | Canton, St Lawrence... | L | 3 Ap 56 |
| 9 Alfred..... | Alfred university, theological dep't..... | Alfred, Allegany..... | L | 28 Mr 57 |
| 10 C. B. I..... | Christian biblical institute..... | Stanfordville, Dutchess. | L | 16 Ap 68 |
| 11 St Bonav.. | St Bonaventure's college, theological dep't..... | Allegany, Cattaraugus. | R | 1 Mr 75 |
| 12 Niagara.... | Niagara univ., Sem. of Our Lady of Angels..... | Niagara Univ., Niagara | R | 7 Ag 81 |
| 13 Jewish..... | Jewish theological seminary of America..... | New York..... | b G L | 23 F 87 |
| 14 St John's.. | St John's college, theological department..... | Brooklyn, Kings..... | c E | 21 S 93 |
| EDUCATION | | | | |
| 1 Teachers... 1 | Teachers college, Columbia university..... | New York..... | R | 12 Ja 89 |
| 2 N. Y. U.... 2 | New York university, school of pedagogy..... | New York..... | E | 3 Mr 90 |
| 3 N. Y. N. C.. 3 | New York state normal college..... | Albany..... | R | 13 Mr 90 |
| MUSIC | | | | |
| 1 N. Y. mus.. 1 | New York college of music..... | New York..... | L | 4 O 78 |
| 2 G. C. mus.. 2 | Grand conservatory of music..... | New York..... | L | 23 My 84 |
| 3 American.. 3 | American college of musicians..... | New York..... | R | 28 F 96 |
| OTHER | | | | |
| 1 Rensselaer.. 1 | Rensselaer polytechnic institute..... | Troy, Rensselaer..... | L | 21 Mr 26 |
| 2 Cooper N... 2 | Cooper union, night school..... | New York..... | L | 17 F 57 |
| 3 Cooper W... 3 | Cooper union, woman's art school..... | New York..... | L | 17 F 57 |
| 4 Conrad.... 4 | Conrad Poppenhusen association..... | College Point, Queens.. | L | 6 My 68 |
| 5 Hebrew.... 5 | Hebrew technical institute..... | New York..... | G L | 11 Ja 84 |
| 6 N. Y. S. L.. 6 | New York state library school..... | Albany..... | E | 5 Ja 87 |
| 7 Pratt..... 7 | Pratt institute..... | Brooklyn, Kings..... | L | 19 My 87 |
| 8 Trade sch.. 8 | New York trade school..... | New York..... | R | 8 Je 92 |
| 9 Roch. Ath.. 9 | Rochester Athenaeum and mechanics inst..... | Rochester, Monroe.... | R | 8 Je 92 |
| 10 N. Y. S. D.. 10 | New York sch. of applied design for women..... | New York..... | G L | 13 D 92 |
| 11 Catholic... 11 | Catholic summer school of America..... | Plattsburg, Clinton..... | R | 9 F 93 |
| 12 T. S. Clark. 12 | T. S. Clarkson memorial sch. of technology... | Potsdam, St Lawrence.. | R | 19 Mr 96 |

a For summary of colleges by counties, see table 5. b General law. c Established without separate charter by trustees of the institution of which this school is a department.

TABLE 4—OTHER PROFESSIONAL AND TECHNICAL SCHOOLS 251

| President of university or college with which the school is connected | Senior officer of faculty | No. | |
|--|---------------------------------------|-----|----------|
| 5 | 6 | | |
| George E. Merrill D.D. | Alfred Hiller D.D. (President) | 1 | LOGY |
| | Sylvester Burnham D.D. (Dean) | 2 | wick 1 |
| | George Black Stewart D.D. (President) | 3 | lton 2 |
| | Eugene A. Hoffman D.D. LL.D. (Dean) | 4 | rn 3 |
| | Charles Cuthbert Hall D.D. (Pres.) | 5 | P. E. 4 |
| | Rev. John A. Grabau (President) | 6 | 1 5 |
| | Augustus H. Strong D.D. LL.D. (Pres.) | 7 | an 6 |
| John Clarence Lee Ph.D. S. T. D. | Isaac Morgan Atwood D.D. (Pres.) | 8 | ester 7 |
| Rev. Boothe Colwell Davis Ph.D. | | 9 | n 8 |
| | John B. Weston D.D. (President) | 10 | 1 9 |
| Very Rev. Joseph F. Butler O. F. M. | | 11 | L 10 |
| Rt Rev. James E. Quigley D.D. (Chanc.) | Very Rev. Patrick McHale (Pres.) | 12 | nav. 11 |
| | | 13 | ra 12 |
| Rev. James J. Sullivan C.M. | | 14 | h 13 |
| | | | in's 14 |
| Seth Low LL.D. | James Earl Russell Ph.D. (Dean) | 1 | CATION |
| Henry M. MacCracken D.D. LL.D. (Chanc.) | Edward R. Shaw Ph.D. (Dean) | 2 | iers 1 |
| | William J. Milne Ph.D. LL.D. (Pres.) | 3 | U. 2 |
| | | | N. C. 3 |
| | Alexander Lambert (Director) | 1 | USIC |
| | Ernst Eberhard Mus. D (President) | 2 | mus 1 |
| | Albert Ross Parsons (President) | 3 | mus 2 |
| | | | ican 3 |
| | John Hudson Peck LL.D. (President) | 1 | 'HER |
| | George W. Plympton (Director) | 2 | el'r 1 |
| | R. Swain Gifford (Director) | 3 | er N. 2 |
| | | 4 | er W. 3 |
| | Edgar S. Barney M.A. C.E. (Principal) | 5 | rd 4 |
| | Melvil Dewey M.A. (Director) | 6 | sw 5 |
| | Frederic B. Pratt B.A. (Chairman) | 7 | S. L. 6 |
| | | 8 | 7 |
| | E. C. Colby (Principal) | 9 | sch 8 |
| | Ellen J. Pond (Superintendent) | 10 | Ath 9 |
| | | 11 | S. D. 10 |
| | Barton Cruikshank M.E. (Director) | 12 | lic 11 |
| | | | ark 12 |

d Vacated by the death of Rev. Sebato Morals. e No organized faculty.

| No. | Denomination | Years in course | Officers of instruction | Total students | Net property | COMMENCEMENT | | DAYS ACTUALLY IN SESSION | | OFFICERS | |
|------------|--------------|-----------------|-------------------------|----------------|-----------------|----------------|-------|--------------------------|--------------------------------|-----------------|---|
| | | | | | | 1899 | 1900 | Full session | Half holidays, partial session | Full professors | Adjunct, associate and ass't professors |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| THE | 1 | L. | 3 | 2 | 9 | \$20 976 40 | 21 Je | 20 Je | 175 | 2 | ----- |
| 1 H. | 2 | B. | 3 | 20 | 52 | f..... | 21 Je | 20 Je | 137 | 35 | 6 |
| 2 H. | 3 | P. | 3 | 28 | 105 | 924 530 30 | 11 My | 10 My | 149 | ----- | 9 |
| 3 A. | 4 | P. E. | 3 | 17 | 149 | 3 361 026 15 | 17 My | 30 My | 144 | 6 | 9 |
| 4 G. | 5 | P. | 3 | 17 | 133 | 2 103 619 .. | 16 My | 15 My | 150 | ----- | 9 |
| 5 U. | 6 | L. | 3 | 4 | 5 | 14 053 42 | 28 Je | 27 Je | 190 | ----- | 1 |
| 6 U. | 7 | B. | 3 | 30 | 124 | 828 995 05 | 10 My | 9 My | 169 | ----- | 10 |
| 7 G. | 8 | U. | 4 | 7 | 20 | 214 745 25 | 27 Je | 28 Je | 140 | 36 | 4 |
| 8 R. | 9 | B. | 3 | 4 | 2 | 26 306 98 | 22 Je | 21 Je | 186 | ----- | 3 |
| 9 C. | 10 | B. | 3 | 9 | 10 | 86 788 90 | 10 My | 9 My | 156 | ----- | 6 |
| 10 C. | 11 | R. C. | 4 | 9 | 59 | 30 200 .. | 21 Je | 22 Je | 194 | 38 | 6 |
| 11 St. | 12 | R. C. | 4 | 8 | 46 | 57 300 .. | 20 Je | 19 Je | 168 | 1 | 8 |
| 12 N. | 13 | H. | 4 | 7 | 20 | 44 500 .. | 27 Je | ----- | 297 | ----- | 3 |
| 13 Jc | 14 | R. C. | 4 | 8 | 59 | 161 880 .. | 17 Je | 20 Je | 167 | 5 | 4 |
| 14 St | | | | | | | | | | | |
| Total ... | | | 170 | 793 | \$7 874 919 45 | | | | | 80 | 18 |
| αAverage | | | 12 | 57 | \$605 763 08 | | | | | 6 | 2 |
| EDU | 1 | ----- | ca | 82 | 1 470 | \$1 353 159 94 | 8 Je | 7 Je | 161 | 19 | 15 |
| 1 T. | 2 | ----- | 2 | 6 | 346 | 164 129 14 | 8 Je | 7 Je | 182 | ----- | 4 |
| 2 N. | 3 | ----- | 2 | 20 | 352 | 233 910 81 | 16 Je | 15 Je | 183 | ----- | 16 |
| 3 N. | | | | | | | | | | | |
| Total ... | | | 108 | 2 168 | \$1 751 199 89 | | | | | 35 | 8 |
| αAverage | | | 36 | 723 | \$583 733 30 | | | | | 12 | 3 |
| 3 | 1 | ----- | f | 38 | 515 | \$62 426 .. | 16 My | ----- | 252 | ----- | 34 |
| 1 N. | 2 | ----- | 4 | 21 | 237 | 759 65 | 22 Je | 23 Je | 296 | ----- | 6 |
| 2 G. | 3 | ----- | f | ----- | d .. | 248 75 | ----- | ----- | ----- | ----- | ----- |
| 3 A. | | | | | | | | | | | |
| Total | | | 59 | 752 | \$63 434 40 | | | | | 40 | 8 |
| αAverage | | | 80 | 376 | \$21 144 80 | | | | | 20 | 8 |
| O | 1 | ----- | 4 | 16 | 143 | \$346 314 68 | 14 Je | 13 Je | 187 | ----- | 7 |
| 1 R. | 2 | ----- | 5 | 31 | 2 355 | 1 714 168 44 | 27 My | 26 My | 132 | ----- | 5 |
| 2 C. | 3 | ----- | f | 8 | 293 | g | 27 My | 26 My | 153 | ----- | ----- |
| 3 C. | 4 | ----- | 4 | 2 | 145 | 190 113 71 | 1 My | 1 My | 131 | ----- | ----- |
| 4 C. | 5 | ----- | H. | 3 | 12 | 114 615 07 | 22 Je | 21 Je | 196 | 27 | ----- |
| 5 H. | 6 | ----- | 2 | 31 | 61 | A 623 334 72 | ----- | ----- | 139 | 71 | ----- |
| 6 N. | 7 | ----- | f | 135 | 2 617 | 3 617 909 64 | 22 Je | 21 Je | 177 | 34 | 7 |
| 7 P. | 8 | ----- | f | 24 | 550 | 911 057 94 | 5 Ap | 4 Ap | m 141 | ----- | ----- |
| 8 T. | 9 | ----- | 3 | 38 | 2 727 | 68 701 .. | 5 Je | 25 My | 195 | ----- | 14 |
| 9 R. | 10 | ----- | c3 | 14 | 308 | 152 355 81 | 24 My | ----- | 186 | ----- | 14 |
| 10 N. | 11 | ----- | ----- | 21 | 1 355 | f 35 500 .. | ----- | ----- | 34 | ----- | ----- |
| 11 C. | 12 | ----- | ca | 8 | 49 | 454 742 79 | 23 Je | 22 Je | 219 | ----- | 6 |
| 12 T. | | | | | | | | | | | |
| Total | | | 340 | 10 813 | \$8 228 813 80 | | | | | 53 | 5 |
| αAverage | | | 28 | 901 | \$748 073 98 | | | | | 9 | 3 |
| Gr. total | | | 677 | 14 526 | \$17 918 367 54 | | | | | 208 | 29 |

α Obtained by dividing the total of each column by the number of schools reporting figures in each. β L. Lutheran, B. baptist, P. presbyterian, P. E. protestant episcopal, U. universalist, C. Christian, R. C. Roman catholic and H. Hebrew. γ Some of the courses offered are for two years. δ Institution merely conducts examinations. ε Including 40 in school of stenography and typewriting and 23 in school of telegraphy. f No separate statistics reported for this department; included with data reported for arts department. g Given under night school. h Including value of New York state library which is used by all the teaching institutions in the state. i Including academic department. j Besides 55 days in summer session. k Including summer session. l The schools of stenography and typewriting and telegraphy were in session 153 days. m 123 evening sessions also.

TABLE 4—OTHER PROFESSIONAL AND TECHNICAL SCHOOLS 253

| OF INSTRUCTION | | | | | | | EMPLOYEES NOT COUNTED IN FACULTY | | | | | | | No. |
|---------------------------|-----------|---------------------------------------|-------|-------|----------|------------------------------------|----------------------------------|------------|-----------------|--------------------------------------|---------------|--|-------|-------|
| Instructors and tutors | Lecturers | Other assistants on teaching force | TOTAL | | | | In libraries | In museums | In laboratories | In financial and business offices | In gymnasiums | Janitors, engi- neers and laborers | Total | |
| | | | Men | Women | Resident | Non-resident or partial time | | | | | | | | |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| 2 | 12 | | 2 | | 2 | | 1 | | | | | | 1 | 1 |
| 3 | 15 | | 20 | | 6 | 14 | 2 | | | | | 1 | 1 | 2 |
| 4 | 1 | 8 | 28 | | 8 | 20 | 4 | | | 1 | | 6 | 11 | 3 |
| 4 | 3 | | 17 | | 15 | 2 | 5 | | | 4 | | 7 | 7 | 4 |
| 1 | | | 17 | | 14 | 3 | 5 | | | 2 | 1 | 6 | 14 | 5 |
| 1 | 17 | | 4 | | 3 | 1 | | | | 2 | | 1 | 3 | 6 |
| | 2 | | 30 | | 13 | 17 | 2 | | | 1 | | 2 | 5 | 7 |
| | | | 7 | | 5 | 2 | 2 | | | 2 | | 1 | 6 | 8 |
| | 1 | | 4 | | 3 | 1 | 3 | | | 1 | | 2 | 7 | 9 |
| 1 | 2 | | 8 | 1 | 4 | 5 | | | | | | 2 | 2 | 10 |
| | | | 9 | | 9 | | | | | | | 1 | 1 | 11 |
| | | | 8 | | 8 | | | | | | | 13 | 13 | 12 |
| 4 | | | 7 | | 17 | | | | | | | 3 | 3 | 13 |
| | | 1 | 8 | | 4 | 4 | 4 | | | 2 | 2 | 9 | 17 | 14 |
| 20 | 53 | 4 | 169 | 1 | 101 | 69 | 24 | | | 15 | 5 | 37 | 81 | Tot. |
| 3 | 7 | 2 | 12 | 1 | 7 | 7 | 3 | | | 2 | 1 | 3 | 6 | Av. |
| 44 | 12 | 8 | 41 | 41 | 68 | 14 | 3 | | 3 | 16 | | 17 | 39 | 1 |
| | 2 | | 6 | | 4 | 2 | 2 | | | 2 | | | 2 | 2 |
| | | 4 | 9 | 11 | 20 | | | | 1 | 2 | | 2 | 5 | 3 |
| 44 | 14 | 12 | 56 | 52 | 92 | 16 | 5 | | 4 | 20 | | 19 | 48 | Tot. |
| 44 | 7 | 6 | 19 | 26 | 31 | 8 | 3 | | 2 | 7 | | 10 | 16 | Av. |
| 4 | 1 | 3 | 25 | 13 | | 38 | | | | 3 | | 1 | 4 | 1 |
| | 3 | | 18 | 8 | 3 | 18 | | | | 3 | | 1 | 4 | 2 |
| | | | | | | | | | | | | | | 3 |
| 4 | 4 | 3 | 43 | 16 | 3 | 56 | | | | 6 | | 2 | 8 | Tot. |
| 4 | 2 | 3 | 22 | 8 | 3 | 28 | | | | 3 | | 1 | 4 | Av. |
| 3 | 2 | | 16 | | 14 | 2 | 1 | | 1 | 1 | | 2 | 6 | 1 |
| 26 | | | 29 | 2 | | 31 | 12 | 2 | | 2 | | 14 | 30 | 2 |
| 7 | 1 | | 6 | 2 | | 8 | | | | | | | | 3 |
| 2 | | | 2 | | 1 | 1 | 1 | | | | p 2 | 1 | 4 | 4 |
| 12 | | | 12 | | 12 | | | | | 1 | | 5 | 6 | 5 |
| 11 | 11 | 9 | 13 | 18 | 22 | 9 | | | | 2 | | 3 | 6 | 6 |
| 106 | 28 | | 66 | 69 | 80 | 55 | 30 | | 2 | 18 | 2 | 39 | 91 | 7 |
| 24 | | | 24 | 24 | 16 | | | | | 5 | | 14 | 19 | 8 |
| 18 | 4 | 2 | 16 | 22 | 16 | 22 | | | | 3 | | 3 | 6 | 9 |
| | | | 8 | 6 | | 14 | 1 | | | 2 | | 1 | 4 | 10 |
| 4 | 17 | | 19 | 2 | | 21 | 2 | | | 5 | 1 | 7 | 8 | 11 |
| 1 | | | 7 | 1 | 8 | | 1 | | | | | 3 | 4 | 12 |
| 208 | 63 | 11 | 218 | 122 | 177 | 163 | 48 | 3 | 3 | 39 | 6 | 32 | 181 | Tot. |
| 19 | 11 | 6 | 18 | 15 | 22 | 18 | 7 | 2 | 2 | 4 | 2 | 9 | 16 | Av. |
| 276 | 134 | 30 | 436 | 191 | 373 | 304 | 77 | 3 | 7 | 80 | 11 | 140 | 318 | G. T. |

n Of these two give partial time. o Resident but giving partial time. p In kindergarten.

LOGY
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Mark 13

NUMBER AND CLASSIFI-

| No. | BY CLASSES | | | | | | | | BY COURSES | | | |
|-------------------|------------|-------|---------|-------|---------|-------|----------|-------|------------|--------|-------|-------|
| | 1st YEAR | | 2D YEAR | | 3D YEAR | | 4TH YEAR | | B. S. | Pd. B. | C. E. | B. D. |
| | Men | Women | Men | Women | Men | Women | Men | Women | | | | |
| | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | | | | |
| THE | 1 | 4 | 2 | 3 | 3 | 3 | 3 | 3 | 40 | 41 | 42 | 43 |
| 1 H ₂ | 2 | 20 | 18 | 14 | 14 | 14 | 14 | 14 | | | | 9 |
| 2 H ₂ | 3 | 31 | 41 | 23 | 23 | 23 | 23 | 23 | | | | 52 |
| 3 A ₂ | 4 | 42 | 54 | 38 | 38 | 38 | 38 | 38 | | | | e95 |
| 4 A ₂ | 5 | 35 | 43 | 28 | 28 | 28 | 28 | 28 | | | | 134 |
| 5 U ₂ | 6 | 2 | 3 | | | | | | | | | 106 |
| 6 G ₂ | 7 | 34 | 50 | 38 | 38 | 38 | 38 | 38 | | | | e5 |
| 7 R ₂ | 8 | 5 | 4 | 2 | 2 | 1 | 6 | | | | | e122 |
| 8 C ₂ | 9 | | 2 | | | | | | | | | 20 |
| 9 A ₁ | 10 | 5 | 1 | 3 | 1 | | | | | | | 2 |
| 10 C ₁ | 11 | 14 | 16 | 18 | 11 | | | | | | | e10 |
| 11 S ₁ | 12 | 17 | 9 | 10 | 11 | | | | | | | e59 |
| 12 N ₁ | 13 | 6 | 14 | 10 | 10 | | | | | | | e46 |
| 13 J ₁ | 14 | 16 | 20 | 10 | 13 | | | | | | | e20 |
| 14 S ₂ | | | | | | | | | | | | e59 |
| Tot... | 231 | 1 | 279 | 2 | 185 | 1 | 40 | | | | | 739 |
| Av.... | 18 | 1 | 20 | 2 | 17 | 1 | 10 | | | | | 53 |
| EDU | 1 | 1 | 27 | 22 | 6 | 56 | 1 | 27 | | 140 | | |
| 1 T ₂ | 2 | a78 | a236 | ? | ? | | | | | a314 | | |
| 2 N ₂ | 3 | 8 | 28 | 6 | 24 | | | | | 66 | | |
| 3 N ₂ | | | | | | | | | | | | |
| Tot... | 87 | 291 | 6 | 46 | 6 | 56 | 1 | 27 | | 520 | | |
| Av.... | 29 | 97 | 6 | 23 | 6 | 56 | 1 | 27 | | 173 | | |
| N | 1 | a128 | a387 | ? | ? | ? | ? | ? | | | | |
| 1 N ₂ | 2 | 40 | 123 | 17 | 21 | 9 | 16 | 1 | 5 | | | |
| 2 G ₂ | 3 | | | | | | | | | | | |
| 3 A ₁ | | | | | | | | | | | | |
| Tot... | 168 | 510 | 17 | 21 | 9 | 16 | 1 | 5 | | | | |
| Av.... | 84 | 255 | 17 | 21 | 9 | 16 | 1 | 5 | | | | |
| O | 1 | 70 | 35 | 19 | 15 | | | | 4 | | 135 | |
| 1 R ₂ | 2 | 1 157 | b72 | 9 | 350 | 4 | e106 | 4 | 635 | | | |
| 2 C ₂ | 3 | | a293 | ? | ? | ? | ? | ? | | | | |
| 3 C ₂ | 4 | 66 | 56 | 11 | 1 | 3 | 2 | 1 | 5 | | | |
| 4 C ₂ | 5 | 120 | 58 | 32 | | | | | | | | |
| 5 H ₂ | 6 | 5 | 29 | 6 | | | | | | | | |
| 6 N ₂ | 7 | a866 | a1751 | ? | ? | ? | ? | ? | | | | |
| 7 P ₁ | 8 | a550 | ? | ? | ? | ? | ? | ? | | | | |
| 8 T ₁ | 9 | 601 | 1812 | 176 | 82 | 44 | 12 | | | | | |
| 9 R ₁ | 10 | | a308 | ? | ? | ? | ? | | | | | |
| 10 N ₁ | 11 | | | | | | | | | | | |
| 11 C ₁ | 12 | 14 | 12 | 7 | | | | | 33 | | | |
| 12 T ₁ | | | | | | | | | | | | |
| Tot... | 3 449 | 4 321 | 942 | 98 | 455 | 18 | 122 | 9 | 672 | | 135 | |
| Av.... | 383 | 617 | 135 | 25 | 76 | 6 | 41 | 5 | 224 | | 135 | |
| G. T. | 3 935 | 5 123 | 1 244 | 167 | 655 | 91 | 164 | 41 | 672 | 520 | 135 | 739 |

a Including all students regardless of years of attendance; students not arranged by classes.
 b Including 23 in school of telegraphy and 40 in school of stenography and typewriting. c Including 31 fifth year students. d Of these 238 are taking the course leading to Pd. M. and 26 that leading to Pd. D. e Not working for degrees.

TABLE 4—OTHER PROFESSIONAL AND TECHNICAL SCHOOLS 255

CATION OF STUDENTS

| Other courses | TOTAL IN UNDER GRADUATE COURSES | | UNCLASSIFIED STUDENTS | | IN GRADUATE COURSES | | GRAND TOTAL OF STUDENTS | | TOTAL STUDENTS BY PREVIOUS EDUCATION | | | No. |
|---------------|---------------------------------|-------|-----------------------|-------|---------------------|-------|-------------------------|--------|--------------------------------------|----------------------------------|----------------------------|-------|
| | Men | Women | Men | Women | Men | Women | Men | Women | College graduates | High school or academy graduates | Non-graduates or not known | |
| 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | |
| 9 | | | | | | | 9 | | 1 | 6 | 2 | 1 |
| 52 | | | | | | | 52 | | 27 | ? | 25 | 2 |
| 95 | | | 5 | | 5 | | 105 | | 78 | 127 | | 3 |
| 134 | | | | | 15 | | 149 | | 95 | ? | 54 | 4 |
| 106 | | | 10 | 2 | 15 | | 131 | 2 | 108 | 125 | | 5 |
| 5 | | | | | | | 5 | | | | 5 | 6 |
| 122 | | | | | 2 | | 124 | | 86 | 32 | | 7 |
| 17 | 3 | | | | | | 17 | 3 | 2 | 8 | 10 | 8 |
| 2 | | | | | | | 2 | | 2 | | | 9 |
| 9 | 1 | | | | | | 9 | 1 | | 3 | 7 | 10 |
| 59 | | | | | | | 59 | | 50 | ? | | 11 |
| 46 | | | | | | | 46 | | 110 | 125 | 11 | 12 |
| 20 | | | | | | | 20 | | ? | ? | 20 | 13 |
| 59 | | | | | | | 59 | | 28 | ? | 31 | 14 |
| 735 | 4 | 15 | 2 | 37 | 787 | 6 | 487 | 135 | 171 | Tot. | | |
| 58 | 2 | 8 | 2 | 9 | 58 | 2 | 44 | 17 | 17 | Av. | | |
| 8 | 132 | 94 | 1158 | 38 | 40 | 140 | 1330 | 76 | j 134 | 1260 | 1 | |
| 78 | 236 | 9 | 23 | | | 87 | 259 | 253 | k 47 | 46 | 2 | |
| 14 | 52 | 21 | 231 | 16 | 18 | 51 | 301 | 34 | 318 | | 3 | |
| 100 | 420 | 124 | 1412 | 54 | 58 | 278 | 1890 | 363 | 499 | 1306 | Tot. | |
| 33 | 140 | 41 | 471 | 27 | 29 | 93 | 630 | 121 | 166 | 653 | Av. | |
| e 515 | 128 | 387 | | | | 128 | 387 | ? | ? | 515 | 1 | |
| 232 | 67 | 165 | | | 2 | 3 | 69 | 168 | 15 | 212 | 2 | |
| f | f | | | | | f | f | | | | 3 | |
| 747 | 195 | 552 | | | 2 | 3 | 197 | 555 | 15 | 10 | 727 | Tot. |
| 374 | 98 | 276 | | | 2 | 3 | 99 | 278 | 15 | 10 | 364 | Av. |
| 139 | | 3 | | | 1 | | 143 | | 8 | 74 | 61 | 1 |
| 1718 | 2 259 | b 89 | | | 7 | | 2266 | 89 | ? | ? | 2355 | 2 |
| e 293 | | 293 | | | | | | 293 | ? | ? | 293 | 3 |
| e 145 | 81 | 64 | | | | | 81 | 64 | | ? | 145 | 4 |
| e 210 | 210 | | | | | | 210 | | | | 210 | 5 |
| 44 | 9 | 35 | 2 | 15 | | | g 11 | g 50 | 32 | 28 | 1 | 6 |
| e 2617 | 866 | 1751 | | | | | 866 | 1751 | ? | ? | 2617 | 7 |
| e 550 | 550 | | | | | | 550 | | | ? | 550 | 8 |
| e 2727 | 821 | 1906 | | | | | 821 | 1906 | | ? | 2727 | 9 |
| e 308 | | 308 | | | | | | 308 | | ? | 308 | 10 |
| | | 1775 | ? | 580 | | | 1775 | 580 | ? | ? | 1355 | 11 |
| 33 | | 4 | 12 | | | | 37 | 12 | | ? | 49 | 12 |
| 8 607 | 4 968 | 4 446 | 784 | 607 | 8 | | 5760 | 5 053 | 40 | 102 | 10 671 | Tot. |
| 956 | 552 | 635 | 196 | 202 | 4 | | 576 | 561 | 20 | 51 | 889 | Av. |
| 9 354 | 5 998 | 5 422 | 923 | 2 021 | 104 | 61 | 47 022 | 47 504 | 905 | 746 | 12 875 | G. T. |

f There are no students; institution merely conducts examinations. g Not including three men and 16 women taking summer course. h Not including students of Chautauqua summer school which reported too late for insertion in these tables. The total attendance was 2262; the number of men and women were not reported separately. i Of these nine have had the equivalent of a college education and the rest are above the grade of high school graduates. j Including 49 normal graduates. k Normal graduates.

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| No. | SUBFRESHMEN AND LOWER GRADES | | DEGREES ALREADY HELD BY STUDENTS | | | | | | | |
|-------------------|------------------------------------|-------|----------------------------------|-------|--------|-------|--------|-------|------------------|-------|
| | Boys | Girls | B. A. | B. S. | Ph. B. | C. E. | LL. B. | M. D. | Other degrees | Total |
| | | | | | | | | | | |
| THE | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 |
| 1 H _a | | | 1 | | | | | | | 1 |
| 2 H _b | | | 20 | | 7 | | | | 8 | a 30 |
| 3 A ₁ | | | 67 | 1 | 7 | | 1 | | 8 | b 79 |
| 4 G _a | | | 75 | | 1 | | | 1 | 18 | 85 |
| 5 U ₁ | | | 87 | 2 | 2 | | 1 | | 11 | 103 |
| 6 G _a | 7 | | | | | | | | | |
| 7 R _c | 17 | | 82 | 8 | 2 | | 1 | | 4 | c 92 |
| 8 C _a | | | | 1 | | | | | 1 | |
| 9 A ₁ | | | 1 | 1 | | | | | | 2 |
| 10 C. | 1 | 8 | | | | | | | | |
| 11 St | | | 11 | | | | | | | 11 |
| 12 St | | | 6 | | | | | | 4 | 10 |
| 13 N ₁ | 10 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 Je | | | 17 | | | | | | 11 | 28 |
| 14 St | | | | | | | | | | |
| Tot. | 35 | 8 | 367 | 8 | 19 | | 3 | 1 | 55 | 453 |
| Av. | 9 | 8 | 87 | 2 | 4 | | 1 | 1 | 7 | 41 |
| EDU | 241 | 238 | 42 | 15 | 3 | 1 | 3 | | 18 | d 82 |
| 1 T _a | | | 39 | 19 | 1 | 1 | 6 | 1 | 39 | 106 |
| 2 N. | 65 | 185 | 24 | 1 | 4 | | | | 5 | 34 |
| 3 N. | | | | | | | | | | |
| Tot. | 306 | 423 | 105 | 35 | 8 | 2 | 9 | 1 | 62 | 222 |
| Av. | 153 | 212 | 35 | 12 | 3 | 1 | 5 | 1 | 21 | 74 |
| N | | | | | | | | | | |
| 1 N. | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 G. | | | | | | | | | | |
| 3 A. | | | | | | | | | | |
| Tot. | | | | | | | | | | |
| Av. | | | | | | | | | | |
| O | | | 6 | | | 2 | | | | 8 |
| 1 R. | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 C _a | | | | | | | | | | |
| 3 C _a | | | | | | | | | | |
| 4 C _a | | | | | | | | | | |
| 5 H. | | | | | | | | | | |
| 6 N. | | | 16 | 3 | 10 | 1 | | | 6 | e 36 |
| 7 P ₁ | 101 | 156 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 T ₁ | | | | | | | | | | |
| 9 R. | | | | | | | | | | |
| 10 N. | | | | | | | | | | |
| 11 C. | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 T. | 14 | 100 | | | | | | | | |
| Tot. | 115 | 256 | 22 | 3 | 10 | 3 | | | 6 | 44 |
| Av. | 58 | 128 | 11 | 3 | 10 | 2 | | | 6 | 22 |
| G. T. | 456 | 682 | 494 | 46 | 37 | 5 | 12 | 2 | 123 | 719 |

a Held by 27 students.
e Held by 32 students.

b Held by 77 students.

c Held by 86 students.

d Held by 74 students.

TABLE 4—OTHER PROFESSIONAL AND TECHNICAL SCHOOLS 257

| DEGREES CONFERRED ON COMPLETION OF COURSE DURING YEAR | | | | | | | GRADUATED WITH- OUT DEGREES | | Honorary degrees con- ferred during year | No. | |
|---|--------|-------|-------|------------------|----------------------|----|--------------------------------|-------|---|-------|----------|
| B. S. | Pd. B. | C. E. | B. D. | Other degrees | TOTAL DURING YEAR | | Men | Women | | | |
| 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | | |
| | | | 3 | | 3 | | | | | 1. | LOGY |
| | | | 6 | | 6 | | | | | 2 | wick 1 |
| | | | | | | | 22 | | | 3 | lton 2 |
| | | | 13 | | 13 | | 32 | | | 4 | rn 3 |
| | | | 15 | | 15 | | 27 | | | 5 | P. E. 4 |
| | | | | | | | 38 | | | 6 | 1 5 |
| | | | 3 | | 2 | 1 | 2 | 1 | | 7 | an 6 |
| | | | | | | | | | | 8 | ster 7 |
| | | | | | | | | | | 9 | m 8 |
| | | | | | | | 11 | | | 10 | 1 9 |
| | | | | | | | | | | 11 | L 10 |
| | | | | | | | 18 | | | 12 | nav. 11 |
| | | | | | | | | | | 13 | ra 12 |
| | | | | | | | | | | 14 | h 13 |
| | | | | | | | | | | | in's 14 |
| | | | 40 | | 39 | 1 | 135 | 1 | | Tot. | |
| | | | 8 | | 8 | 1 | 19 | 1 | | Av. | |
| | f 21 | | | | f 12 | 9 | 18 | 30 | | 1 | |
| | g 49 | | | | 14 | 35 | 2 | 36 | | 2 | CATION |
| | | | | | | | | | | 3 | ers 1 |
| | 70 | | | | 26 | 44 | 20 | 66 | | Tot. | U. 2 |
| | 35 | | | | 18 | 22 | 10 | 33 | | Av. | N. C. 3 |
| | | | | 4 | 1 | 3 | 17 | 51 | | 1 | |
| | | | | | | | | | | 2 | USIC |
| | | | | | | | | | | 3 | mus 1 |
| | | | | 4 | 1 | 3 | 17 | 51 | | 5 | mus 2 |
| | | | | | | | | | | Tot. | ican 3 |
| | | | | 4 | 1 | 3 | 17 | 51 | | Av. | |
| 2 | | 17 | | | 19 | | 1 | 1 | | 1 | HER |
| 22 | | | | | 22 | | | 20 | | 2 | el'r 1 |
| | | | | | | | | | | 3 | r N. 2 |
| | | | | | | | | | | 4 | r W. 3 |
| | | | | | | | | | | 5 | ad 4 |
| | | | | | | | | | | 6 | ow 5 |
| | | | | 5 | 4 | 1 | 81 | 6 | | 7 | S. L. 6 |
| | | | | 1 | 1 | | 49 | 152 | | 8 | 7 |
| | | | | | | | 170 | | | 9 | sch 8 |
| | | | | | | | 3 | 14 | | 10 | Ath 9 |
| | | | | | | | | 7 | | 11 | S. D. 10 |
| | | | | | | | | | | 12 | Hc 11 |
| | | | | | | | | | | | ark 12 |
| 24 | | 17 | | 6 | 46 | 1 | 253 | 199 | | Tot. | |
| 12 | | 17 | | 8 | 12 | 1 | 68 | 40 | | Av. | |
| 24 | 70 | 17 | 40 | 10 | 112 | 49 | 425 | 317 | | G. T. | |

f Of these 16 are Pd. M. and five Pd. D. g Of these one is Pd. M. h Including 12 B. D. conferred in course without examination. i Conferred by University of the State of New York on students recommended by faculty. j M. A. conferred on three students by Columbia university. k Of these two are rabbis and one a teacher.

| THE | No. | LIBRARY | | SUMMARY | | |
|-------|---------|----------|-----------|----------------|----------------|--------------|
| | | Volumes | Pamphlets | USED BY | | |
| | | | | Grounds | Buildings | Furniture |
| 1 Hs | 1 | 76 | 77 | 78 | 79 | 80 |
| 2 Hs | 2 | a5 821 | a300 | \$1 000 .. | \$10 000 .. | \$50 .. |
| 3 Au | 3 | b..... | ? | b..... | b..... | b..... |
| 4 Ge | 4 | 25 679 | 77,500 | 20 000 .. | 225 000 .. | 5 000 .. |
| 5 U | 5 | 28 844 | ? | 650 000 .. | 643 000 .. | ? |
| 6 Ge | 6 | 74 619 | 39 451 | ? | 9519 000 .. | 5 000 .. |
| 7 Rc | 7 | 11 207 | ? | 7 500 .. | 5 000 .. | 600 .. |
| 8 Cs | 8 | 30 068 | ? | ? | 9181 630 56 | ..... |
| 9 Al | 9 | b..... | b..... | b..... | 940 000 .. | 1 000 .. |
| 10 C. | 10 | 1 984 | 572 | 4 000 .. | 23 000 .. | A1 500 .. |
| 11 St | 11 | b..... | b..... | 5 000 .. | 20 000 .. | 4 200 .. |
| 12 N1 | 12 | 1 145 | 600 | 15 000 .. | 30 000 .. | 4 300 .. |
| 13 Je | 13 | 5 100 | 1 245 | 15 000 .. | 10 000 .. | 1 500 .. |
| 14 St | 14 | 75 500 | 73 000 | 80 000 .. | 100 000 .. | 7 000 .. |
| | Tot.... | 179 967 | 52 668 | \$797 500 .. | \$1 756 630 56 | \$30 150 .. |
| | Av | 17 997 | 7 524 | \$88 611 11 | \$146 385 88 | \$3 015 .. |
| EDU | 1 | 11 776 | ? | 7270 000 .. | 19775 000 .. | 7100 000 .. |
| 1 T6 | 2 | 4 590 | ..... | ? | 930 000 .. | A2 266 15 |
| 2 N. | 3 | 3 338 | 330 | 49 000 .. | 153 461 46 | 23 149 33 |
| 3 N. | Tot.... | 19 704 | 330 | \$319 000 .. | \$958 461 46 | \$125 415 48 |
| | Av | 6 568 | 330 | \$159 500 .. | \$319 487 15 | \$41 805 16 |
| N | 1 | ..... | ..... | \$30 000 .. | \$30 000 .. | \$2 000 .. |
| 1 N. | 2 | ..... | ..... | ..... | ..... | A275 .. |
| 2 G. | 3 | ..... | ..... | ..... | ..... | ..... |
| 3 Al | Tot.... | ..... | ..... | \$30 000 .. | \$30 000 .. | \$2 275 .. |
| | Av .... | ..... | ..... | \$30 000 .. | \$30 000 .. | \$1 137 50 |
| O | 1 | 15 000 | 15 000 | ? | 9125 000 .. | \$3 529 .. |
| 1 R. | 2 | 35 976 | 73 500 | ? | 91 020 000 .. | 7A25 428 62 |
| 2 Cr | 3 | c..... | c..... | ? | c..... | c..... |
| 3 Cr | 4 | 3 043 | 1290 | \$8 000 .. | 52 000 .. | 2 400 .. |
| 4 Cr | 5 | 2 115 | ..... | 45 000 .. | 54 381 88 | 7 805 54 |
| 5 H. | 6 | d277 519 | d115 387 | ..... | ..... | 2 567 97 |
| 6 N. | 7 | a67 908 | ..... | ? | a1 069 946 57 | ? |
| 7 Pr | 8 | 800 | ..... | 200 000 .. | 75 000 .. | 1 000 .. |
| 8 Tr | 9 | 250 | 50 | 24 000 .. | 40 000 .. | 3 000 .. |
| 9 R | 10 | 582 | 261 | 125 000 .. | 15 000 .. | 3 000 .. |
| 10 N | 11 | 1 630 | ..... | 735 000 .. | f51 500 .. | f10 000 .. |
| 11 Ch | 12 | 735 | 1 023 | 16 177 84 | 104 011 52 | 4 087 01 |
| 12 T. | Tot.... | 395 356 | 125 511 | \$453 177 84 | \$2 606 839 97 | \$62 808 14 |
| | Av | 35 941 | 17 930 | \$64 739 69 | \$260 684 .. | \$6 280 81 |
| | G. T.. | 595 027 | 178 509 | \$1 599 677 84 | \$5 351 931 99 | \$220 648 62 |

a Used by academic department also. b No separate statistics reported for this department; included with data given for arts department. c Given under night school. d Volumes in N. Y. state library, not including 121,615 duplicates. The school does all its work in the state library; as this is also used increasingly by all the teaching institutions in the University to which books are sent by express or mail, it should not be omitted from the total which shows the books available to New York students and is therefore added here. e Rooms in state capitol. f Estimated from figures reported in 1898. g Including grounds. h Including apparatus.

TABLE 4—OTHER PROFESSIONAL AND TECHNICAL SCHOOLS 259

| OF PROPERTY | | | | INVESTMENTS OWNED BY SCHOOL | | No. | |
|--------------|----------------|-------------|----------------|--|-----------------------|-------|----------|
| SCHOOL | | | | | | | |
| Apparatus | Library | Museum | Total | Real estate owned but not used by school | Real estate mortgages | | |
| 81 | 82 | 83 | 84 | 85 | 86 | | |
| \$190 .. | \$6 144 23 | | \$17 294 23 | | \$3 682 17 | 1 | LOGY |
| b .. | b .. | b .. | b .. | b .. | b .. | 2 | wick 1 |
| | 50 000 .. | | 300 000 .. | \$114 607 27 | 48 675 17 | 3 | lton 2 |
| | 100 000 .. | | 1 593 000 .. | 700 000 .. | 1 015 378 78 | 4 | rn 3 |
| | 74 619 .. | \$1 000 .. | 599 619 .. | 200 000 .. | 510 000 .. | 5 | P. E. 4 |
| | 1 000 .. | | 14 100 .. | | | 6 | |
| | 75 798 76 | 1 306 33 | 208 735 65 | 100 132 41 | 490 082 45 | 7 | an 5 |
| | 20 000 .. | | 61 000 .. | | 155 732 72 | 8 | ster 6 |
| b .. | 4 050 .. | | 4 050 .. | | 21 276 98 | 9 | m 7 |
| | 800 .. | | 29 300 .. | | | 10 | i 8 |
| | | | 29 200 .. | | | 11 | L 9 |
| 3 000 .. | 6 000 .. | 500 .. | 58 800 .. | | | 12 | nav. 10 |
| | 8 000 .. | | 34 500 .. | 10 000 .. | | 13 | ra 11 |
| | 2 500 .. | | 189 500 .. | | | 14 | h 12 |
| | | | | | | | in's 13 |
| \$3 100 .. | \$348 911 99 | \$2 806 33 | \$2 939 098 88 | \$1 124 739 68 | \$2 681 854 37 | Tot. | |
| \$1 550 .. | \$29 076 .. | \$935 44 | \$226 084 58 | \$224 947 94 | \$383 122 05 | Av. | |
| †\$29 500 .. | †10 000 .. | \$5 000 .. | \$1 189 500 .. | | | 1 | CATION |
| † | 4 362 99 | † | 36 629 14 | | | 2 | ters 1 |
| 5 300 .. | 8 000 .. | | 233 910 79 | | | 3 | U. 2 |
| | | | | | | | N. C. 3 |
| \$34 800 .. | \$17 362 99 | \$5 000 .. | \$1 460 039 93 | | | Tot. | |
| \$17 400 .. | \$5 787 66 | \$5 000 .. | \$436 679 98 | | | Av. | |
| | | | \$62 000 .. | | | 1 | USIC |
| | | | 275 .. | | | 2 | mus 1 |
| | | | | | | 3 | mus 2 |
| | | | \$62 275 .. | | | Tot. | ican 3 |
| | | | \$31 137 50 | | | Av. | |
| \$18 635 .. | \$3 581 .. | \$8 733 25 | \$159 478 25 | \$10 000 .. | \$50 240 .. | 1 | HER |
| † | †20 000 .. | †10 000 .. | 1 075 428 62 | | | 2 | sel'r 1 |
| | | | | | | 3 | or N. 2 |
| 3 000 .. | 3 000 .. | | 65 700 .. | 36 380 21 | 23 300 .. | 4 | or W. 3 |
| 10 071 37 | †1 850 .. | | 119 108 79 | | 10 000 .. | 5 | ed 4 |
| 352 58 | 617 589 .. | †1 560 .. | 622 059 55 | | | 6 | ow 5 |
| † | † | † | †1 069 948 57 | † | † | 7 | S. L. 6 |
| 20 000 .. | 500 .. | | 296 500 .. | | 25 000 .. | 8 | |
| 6 000 .. | 600 .. | | 73 600 .. | 7 000 .. | | 9 | sch 8 |
| 600 .. | 5 000 .. | | 148 800 .. | | | 10 | Ath 9 |
| †2 500 .. | †1 000 .. | | †100 000 .. | | | 11 | S. D. 10 |
| 24 549 09 | 2 056 73 | | 160 876 19 | | | 12 | llc 11 |
| | | | | | | | Mark 12 |
| \$83 008 04 | \$855 170 73 | \$20 293 25 | \$3 881 297 97 | \$53 380 21 | \$118 540 .. | Tot. | |
| \$9 223 12 | \$65 517 07 | \$6 764 42 | \$352 845 27 | 17 786 74 | \$29 635 .. | Av. | |
| \$120 908 04 | \$1 021 445 71 | \$28 099 58 | \$8 342 711 78 | \$1 178 099 89 | \$2 800 594 37 | G. T. | |

† No value being reported, library is estimated at \$1 a volume. ‡ Including museum. * Library museum.

| SUMMARY OF | | | | | |
|---|---------------------------------|--|----------------------------|-----------------------|-----------------------|
| INVESTMENTS OWNED BY SCHOOL, <i>concluded</i> | | | | | |
| No. | Corporation bonds and stocks | Notes and accounts payable to school | Cash on hand or in bank | Other property | Total |
| | 87 | 88 | 89 | 90 | 91 |
| THI 1 | ..... | ..... | ..... | ..... | \$3 682 17 |
| 1 H _i 2 | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | 624 530 30 |
| 2 H _i 3 | ..... | ..... | ..... | ..... | 1 973 626 15 |
| 3 A _i 4 | \$82 200 .. | \$7 500 .. | \$24 171 76 | ..... | 1 539 000 .. |
| 4 G _i 5 | 650 000 .. | 25 000 .. | 168 547 37 | ..... | ..... |
| 5 U _i 6 | ..... | ..... | 4 000 .. | \$150 000 .. | ..... |
| 6 G _i 7 | ..... | ..... | ..... | ..... | 642 259 40 |
| 7 R _i 8 | 20 284 44 | ..... | 31 860 10 | ..... | 155 732 72 |
| 8 C _i 9 | ..... | ..... | ..... | ..... | 22 256 96 |
| 9 A _i 10 | ..... | 980 .. | ..... | ..... | 59 058 27 |
| 10 C _i 11 | 57 963 75 | 800 .. | 294 52 | ..... | 1 000 .. |
| 11 S _i 12 | ..... | ..... | 1 000 .. | ..... | 1 000 .. |
| 12 N _i 13 | ..... | 1 000 .. | ..... | ..... | 10 000 .. |
| 13 J _i 14 | ..... | ..... | ..... | ..... | 4 480 .. |
| 14 S _i 14 | ..... | 2 800 .. | 1 800 .. | ..... | ..... |
| Tot ... | \$810 898 19 | \$38 080 .. | \$231 553 75 | \$150 000 .. | \$5 036 625 99 |
| Δ v ... | \$202 599 55 | \$6 346 66 | \$33 079 11 | \$150 000 .. | \$419 718 83 |
| EDU 1 | \$11 000 .. | \$10 713 29 | \$181 946 65 | ..... | \$208 659 94 |
| 1 T _i 2 | 127 500 .. | ..... | ..... | ..... | 127 500 .. |
| 2 N _i 3 | ..... | ..... | 02 | ..... | 02 |
| 3 N _i 3 | ..... | ..... | ..... | ..... | ..... |
| Tot ... | \$138 500 .. | \$10 713 29 | \$181 946 67 | ..... | \$331 159 96 |
| Δ v ... | \$69 250 .. | \$10 713 29 | \$90 973 34 | ..... | \$110 336 65 |
| 3 1 | ..... | \$300 .. | \$126 .. | ..... | \$426 .. |
| 1 N _i 2 | ..... | 269 .. | 215 65 | ..... | 484 65 |
| 2 G _i 3 | ..... | ..... | 248 75 | ..... | 248 75 |
| 3 A _i 3 | ..... | ..... | ..... | ..... | ..... |
| Tot ... | ..... | \$569 .. | \$590 40 | ..... | \$1 159 40 |
| Δ v ... | ..... | \$284 50 | \$196 80 | ..... | \$386 47 |
| O 1 | \$64 000 .. | \$7 820 .. | \$30 961 92 | \$29 814 51 | \$302 836 43 |
| 1 R _i 2 | 640 500 .. | 650 .. | 2 118 70 | ..... | 643 268 70 |
| 2 C _i 3 | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> ..... | ..... |
| 3 C _i 4 | 57 113 .. | 1 586 60 | 6 053 90 | ..... | 124 413 71 |
| 4 C _i 5 | 16 100 .. | ..... | ..... | ..... | 26 100 .. |
| 5 H _i 6 | ..... | ..... | 1 275 17 | ..... | 1 275 17 |
| 6 N _i 7 | ..... | ..... | ..... | <i>c</i> 2 552 173 64 | <i>c</i> 2 552 173 64 |
| 7 P _i 8 | 590 768 .. | ..... | 4 789 94 | ..... | 620 567 94 |
| 8 T _i 9 | ..... | ..... | 101 .. | ..... | 7 101 .. |
| 9 R _i 10 | 5 000 .. | 85 .. | 170 81 | ..... | 5 255 81 |
| 10 N _i 11 | ..... | 15 000 .. | ..... | ..... | 15 000 .. |
| 11 C _i 12 | ..... | 520 .. | 3 846 66 | 300 000 .. | 303 866 60 |
| 12 T _i 12 | ..... | ..... | ..... | ..... | ..... |
| Tot ... | \$1 373 481 .. | \$15 661 60 | \$48 818 04 | \$2 881 988 15 | \$4 491 849 .. |
| Δ v ... | \$228 913 50 | \$2 610 27 | \$6 102 26 | \$960 682 72 | \$408 349 91 |
| G. T... 1 | \$2 322 379 19 | \$65 023 89 | \$462 908 86 | \$3 031 988 15 | \$9 860 794 35 |

a No separate statistics reported for this department; included with data for arts department.
b Given under night school. *c* Including academic department.

TABLE 4—OTHER PROFESSIONAL AND TECHNICAL SCHOOLS 261

| PROPERTY, <i>concluded</i> | | | FINANCIAL STATEMENT | | | No. | |
|----------------------------|----------------------|-----------------|----------------------|---------------------|-------------|-------|----------|
| Total school property | Debts at end of year | Net property | RECEIPTS DURING YEAR | | | | |
| | | | Tuition fees | Fees for professors | Room rent | | |
| 92 | 93 | 94 | 95 | 96 | 97 | | |
| \$20 976 40 | ----- | \$20 976 40 | ----- | ----- | ----- | 1 | LOGY |
| a..... | ----- | a..... | ----- | ----- | ----- | 2 | vick 1 |
| 924 530 30 | ----- | 924 530 30 | ----- | ----- | ----- | 3 | lton 2 |
| 3 366 626 15 | \$5 600 .. | 3 361 026 15 | ----- | ----- | \$12 064 .. | 4 | rn 3 |
| 2 138 619 .. | 35 000 .. | 2 103 619 .. | ----- | ----- | ? | 5 | P. E. 4 |
| 14 100 .. | 46 58 .. | 14 053 42 | ----- | \$419 45 | ----- | 6 | an 5 |
| 850 995 05 | 22 000 .. | 828 995 05 | ----- | ----- | 1 613 50 | 7 | an 6 |
| 216 732 72 | 1 987 47 | 214 745 25 | ----- | ----- | ----- | 8 | ester 7 |
| 26 306 98 | ----- | 26 306 98 | ----- | ----- | ----- | 9 | m 8 |
| 88 358 27 | 1 571 37 | 86 786 90 | ----- | ----- | ----- | 10 | L 9 |
| 30 200 .. | ----- | 30 200 .. | \$3 550 .. | ----- | ----- | 11 | L 10 |
| 59 800 .. | 2 500 .. | 57 300 .. | 3 850 .. | ----- | 1 500 .. | 12 | nay. 11 |
| 44 500 .. | ----- | 44 500 .. | ----- | ----- | ----- | 13 | ra 12 |
| 193 980 .. | 32 100 .. | 161 880 .. | 11 481 90 | ----- | ----- | 14 | h 13 |
| \$7 975 724 87 | \$100 805 42 | \$7 874 919 45 | \$18 881 90 | \$419 45 | \$15 177 50 | Tot. | in's 14 |
| \$613 517 30 | \$12 600 68 | \$605 763 08 | \$6 293 97 | \$419 45 | \$5 059 17 | Av. | |
| \$1 393 159 94 | \$40 000 .. | \$1 353 159 94 | \$95 104 70 | ----- | ? | 1 | CATION |
| 164 129 14 | ----- | 164 129 14 | 5 561 .. | ----- | ----- | 2 | ers 1 |
| 233 910 81 | ----- | 233 910 81 | ----- | ----- | ----- | 3 | U. 2 |
| \$1 791 199 89 | \$40 000 .. | \$1 751 199 89 | \$100 685 70 | ----- | ----- | Tot. | N. C. 3 |
| \$597 066 63 | \$40 000 .. | \$583 733 30 | \$50 332 85 | ----- | ----- | Av. | |
| \$62 426 .. | ----- | \$62 426 .. | \$26757 .. | ----- | \$179 .. | 1 | USIC |
| 759 85 | ----- | 759 85 | 8 808 36 | ----- | 135 .. | 2 | mus 1 |
| 248 75 | ----- | 248 75 | e192 .. | ----- | ----- | 3 | mus 2 |
| \$63 434 40 | ----- | \$63 434 40 | \$35 757 36 | ----- | \$314 .. | Tot. | ican 3 |
| \$21 144 80 | ----- | \$21 144 80 | \$11 919 12 | ----- | \$157 .. | Av. | |
| \$362 314 68 | \$16 000 .. | \$346 314 68 | \$25 925 .. | ----- | ----- | 1 | HER |
| 1 718 697 32 | 4 528 88 | 1 714 168 44 | ----- | ----- | ----- | 2 | el'r 1 |
| b..... | ----- | b..... | ----- | ----- | ----- | 3 | or N. 2 |
| 190 113 71 | ----- | 190 113 71 | ----- | ----- | ----- | 4 | or W. 3 |
| 145 208 79 | 30 593 72 | 114 615 07 | ----- | ----- | ----- | 5 | id 4 |
| d623 334 72 | ----- | d623 334 72 | 2 790 .. | ----- | ----- | 6 | sw 5 |
| c8 622 120 21 | e4 210 57 | c8 617 909 64 | 46 557 05 | ----- | ----- | 7 | S. L. 6 |
| 917 057 94 | 6 000 .. | 911 057 94 | 11 180 75 | ----- | ----- | 8 | sch 7 |
| 80 701 .. | 12 000 .. | 68 701 .. | 14 143 27 | ----- | ----- | 9 | Ath 8 |
| 153 855 81 | 1 500 .. | 152 355 81 | 9 570 50 | ----- | ----- | 10 | S. D. 10 |
| 1105 000 .. | 69 500 .. | 135 500 .. | ? | ----- | ? | 11 | lic 11 |
| 454 742 79 | ----- | 454 742 79 | 2 757 50 | ----- | ----- | 12 | Hark 12 |
| \$8 373 146 97 | \$144 333 17 | \$8 228 813 80 | \$112 924 07 | ----- | ----- | Tot. | |
| \$761 195 18 | \$18 041 65 | \$748 073 98 | \$16 132 01 | ----- | ----- | Av. | |
| \$18 208 506 13 | \$285 138 59 | \$17 918 367 54 | \$268 229 03 | \$417 45 | \$15 491 50 | G. T. | |

d Including value of New York state library which is used by all the teaching institutions in the state. e Examination fees.

| | | FINANCIAL STATE- | | | | | |
|-------------------|----|---------------------------------|------------------------------|-----------------------|--------------------|-------------------|----------------|
| | | RECEIPTS DURING YEAR, concluded | | | | | |
| No. | | Board | Other receipts from students | Income of investments | Gifts and bequests | All other sources | Total |
| THE | | 98 | 99 | 100 | 101 | 102 | 103 |
| 1 H ₁ | 1 | ----- | ----- | \$142 38 | \$10 .. | \$634 .. | \$786 38 |
| 2 H ₂ | 2 | ----- | \$1 010 50 | 4 250 .. | 10 866 34 | ----- | 16 126 84 |
| 3 A ₁ | 3 | ----- | 3 103 50 | 31 293 49 | 9 879 40 | 22 460 03 | 66 736 42 |
| 4 G ₁ | 4 | \$13 630 28 | ----- | 39 091 60 | 88 277 94 | 27 368 45 | 180 432 27 |
| 5 U ₁ | 5 | ----- | a3 500 .. | 75 000 .. | 11 000 .. | 2 000 .. | 91 500 .. |
| 6 G ₂ | 6 | 477 68 | ----- | ----- | 272 25 | 648 88 | 1 818 26 |
| 7 R ₁ | 7 | ----- | ----- | 26 923 85 | 44 304 39 | ----- | 72 841 74 |
| 8 C ₁ | 8 | ----- | ----- | 7 372 07 | 500 .. | ----- | 7 872 07 |
| 9 A ₂ | 9 | ----- | ----- | 1 458 84 | 60 .. | 191 16 | 1 710 .. |
| 10 C ₂ | 10 | ----- | 109 67 | 2 972 99 | 1 951 16 | 293 10 | 5 326 92 |
| 11 S ₁ | 11 | 6 000 .. | ----- | ----- | ----- | ----- | 9 550 .. |
| 12 N ₁ | 12 | 8 850 .. | 500 .. | ----- | ----- | 1 500 .. | 11 200 .. |
| 13 J ₁ | 13 | ----- | ----- | ----- | c17 228 80 | c19 922 61 | c79 151 41 |
| 14 S ₂ | 14 | ----- | ----- | ----- | ----- | 8 975 14 | 20 457 04 |
| Tot... | | \$23 957 96 | \$8 223 67 | \$188 505 17 | \$174 350 28 | \$65 993 37 | \$495 569 30 |
| Av... | | \$5 989 49 | \$1 644 78 | \$20 945 02 | \$15 850 03 | \$6 599 34 | \$35 393 52 |
| EDUC | | | | | | | |
| 1 T ₁ | 1 | \$21 337 64 | \$715 .. | \$530 .. | \$67 435 .. | \$2 901 64 | \$188 023 98 |
| 2 N ₁ | 2 | ----- | 99 .. | 4 928 32 | 3 075 .. | ----- | 13 663 32 |
| 3 N ₂ | 3 | ----- | 12 908 25 | ----- | ----- | 34 684 69 | 47 592 94 |
| Tot... | | \$21 337 64 | \$13 722 25 | \$5 458 32 | \$70 510 .. | \$37 586 33 | \$249 230 24 |
| Av... | | \$21 337 64 | \$4 574 08 | \$2 729 16 | \$35 255 .. | \$18 793 17 | \$33 098 41 |
| N | | | | | | | |
| 1 N ₁ | 1 | ----- | ----- | ----- | ----- | \$403 .. | \$27 339 .. |
| 2 G ₁ | 2 | ----- | ----- | ----- | ----- | 1 081 50 | 10 004 86 |
| 3 A ₁ | 3 | ----- | ----- | ----- | ----- | 106 63 | 298 63 |
| Tot... | | ----- | ----- | ----- | ----- | \$1 571 13 | \$37 642 49 |
| Av... | | ----- | ----- | ----- | ----- | \$523 71 | \$12 547 50 |
| O | | | | | | | |
| 1 R ₁ | 1 | ----- | \$144 .. | \$6 975 26 | \$21 015 .. | ----- | \$54 059 26 |
| 2 C ₁ | 2 | ----- | ----- | 31 946 67 | 1 888 52 | \$28 420 27 | 62 255 46 |
| 3 C ₂ | 3 | ----- | ----- | b----- | b----- | b----- | b----- |
| 4 C ₃ | 4 | ----- | ----- | 4 015 42 | ----- | 16 938 40 | 20 953 82 |
| 5 H ₁ | 5 | ----- | ----- | 638 57 | 40 722 50 | 9 794 52 | 51 155 59 |
| 6 N ₁ | 6 | ----- | ----- | ----- | ----- | ----- | 2 790 .. |
| 7 P ₁ | 7 | ? | ? | 723 477 05 | ? | 28 215 86 | 198 249 96 |
| 8 T ₁ | 8 | ----- | ----- | 21 744 03 | ----- | 14 110 54 | 47 035 32 |
| 9 R ₁ | 9 | ----- | ----- | 360 .. | 23 046 40 | 1 705 93 | 39 255 60 |
| 10 N ₂ | 10 | ----- | 42 87 | 175 .. | 392 .. | 2 169 99 | 12 850 36 |
| 11 C ₁ | 11 | ? | ? | ? | ? | 728 688 92 | 28 688 92 |
| 12 T ₁ | 12 | ----- | 82 78 | 15 000 .. | ----- | 7 372 32 | 25 162 60 |
| Tot... | | ----- | \$219 65 | \$204 332 .. | \$87 064 42 | \$137 416 75 | \$541 956 89 |
| Av... | | ----- | \$73 22 | \$22 703 56 | \$17 412 88 | \$15 268 53 | \$49 268 81 |
| G. T... | | \$45 295 60 | \$22 165 57 | \$398 295 49 | \$331 924 70 | \$242 567 58 | \$1 324 388 92 |

a Including room rent. b Given under night school. c No figures reported for this year; one half of the statistics for 1896-98 estimated.

TABLE 4—OTHER PROFESSIONAL AND TECHNICAL SCHOOLS 263

MENT, continued

EXPENDITURES DURING YEAR

ADDITIONS, IMPROVEMENT AND REPAIRS

No.

| Grounds | Buildings | Furniture | Apparatus | Library | Museum | | |
|------------|-------------|------------|-------------|-------------|------------|-------|----------|
| 104 | 105 | 106 | 107 | 108 | 109 | | |
| | \$172 06 | | | | | 1 | LOGY |
| \$486 10 | 1 382 49 | \$645 17 | \$100 .. | \$1 227 53 | | 2 | vick 1 |
| | 15 000 .. | | | 1 691 06 | | 3 | lton 2 |
| ? | d 8 000 .. | ? | ? | | | 4 | rn 3 |
| | 205 91 | 100 .. | | | | 5 | P. E. 4 |
| | 5 834 48 | | | 2 058 82 | | 6 | i 5 |
| | | | | | | 7 | an 6 |
| | 580 82 | 48 .. | | 10 61 | | 8 | ester 7 |
| 500 .. | 200 .. | 150 .. | | | | 9 | n 8 |
| 800 .. | 2 000 .. | 100 .. | 500 .. | 50 .. | | 10 | L 9 |
| | c 1255 56 | c 175 09 | | c 110 56 | | 11 | nav. 11 |
| 100 .. | 400 .. | 100 .. | | 200 .. | | 12 | ra 12 |
| | | | | | | 13 | h 13 |
| | | | | | | 14 | in's 14 |
| \$1 886 10 | \$33 961 32 | \$1 218 26 | \$600 .. | 5 248 58 | | Tot. | |
| \$346 53 | \$3 087 39 | \$174 04 | \$300 .. | \$749 80 | | Av. | |
| ? | \$5 046 56 | \$3 054 22 | | \$1 164 93 | | 1 | CATION |
| | 8 640 46 | 484 59 | \$135 .. | A 109 55 | ? | 2 | iers 1 |
| | | g 1 450 82 | ? | 859 02 | | 3 | U. 2 |
| | \$13 687 02 | \$4 989 63 | \$135 .. | \$2 133 50 | | Tot. | N. C. 3 |
| | \$6 843 51 | \$1 663 21 | \$135 .. | \$711 17 | | Av. | |
| | \$132 .. | \$30 .. | | | | 1 | USIC |
| | | | | | | 2 | mus 1 |
| | | | | | | 3 | mus 2 |
| | \$132 .. | \$30 .. | | | | Tot. | ican 3 |
| | \$132 .. | \$30 .. | | | | Av. | |
| ? | c \$627 25 | \$29 .. | \$312 .. | \$137 .. | | 1 | HER |
| ? | f 7 846 47 | ? | 2 629 27 | 6 415 84 | \$1 948 48 | 2 | el'r 1 |
| | b | | b | | | 3 | or N. 2 |
| | 58 72 | 17 60 | | 192 81 | | 4 | or W. 3 |
| | 168 87 | | 1 104 47 | 190 70 | | 5 | d 4 |
| | | | | | | 6 | ow 5 |
| ? | ? | ? | ? | ? | ? | 7 | S. L. 6 |
| | 1 471 86 | | 11 530 01 | | | 8 | sch 8 |
| | 147 87 | | 2 500 .. | | | 9 | Ath 9 |
| | 140 49 | 45 51 | 301 85 | 75 06 | | 10 | S. D. 10 |
| ? | ? | ? | ? | ? | ? | 11 | He 11 |
| | | | 6 025 .. | 275 .. | | 12 | ark 13 |
| | \$10 401 53 | \$92 11 | \$24 402 10 | \$7 286 41 | \$1 948 48 | Tot. | |
| | \$1 485 93 | \$30 70 | \$3 486 01 | \$1 214 41 | \$1 948 48 | Av. | |
| \$1 386 10 | \$58 181 87 | \$6 330 .. | \$25 137 10 | \$14 668 49 | \$1 948 48 | G. T. | |

d Including grounds, furniture and apparatus. e Including grounds. f Including grounds and furniture. g Including apparatus. h Including museum. i All expenses of library and reading room.

| | | FINANCIAL STATE- | | | | |
|-----------|----|--------------------------|--------------------|--|----------------------------|---------------------------|
| | | EXPENDITURES DUR- | | | | |
| No. | | Salaries for instruction | Fees to professors | Salaries paid other officers and employees | Prizes, scholarships, etc. | Given or lent to students |
| THI | | 110 | 111 | 112 | 113 | 114 |
| 1 H | 1 | \$800 .. | ..... | ..... | \$10 .. | ..... |
| 2 H | 2 | 13 116 67 | ..... | \$582 .. | 450 .. | ..... |
| 3 A | 3 | 20 750 .. | ..... | 3 050 .. | ..... | \$10 814 75 |
| 4 G | 4 | 37 522 90 | ..... | 6 412 .. | 6 312 81 | ..... |
| 5 U | 5 | 46 950 .. | ..... | 8 000 .. | 14 000 .. | ..... |
| 6 G | 6 | 681 .. | ..... | ..... | ..... | ..... |
| 7 R | 7 | 25 900 .. | ..... | ..... | ..... | 13 418 .. |
| 8 C | 8 | 7 250 .. | ..... | 500 .. | ..... | 200 .. |
| 9 A | 9 | 1 600 .. | ..... | ..... | ..... | 60 .. |
| 10 C | 10 | 2 740 .. | ..... | 85 63 | ..... | 100 .. |
| 11 S | 11 | a 3 000 .. | ..... | 1 500 .. | ..... | 200 .. |
| 12 N | 12 | ..... | ..... | 2 500 .. | 50 .. | 13 418 .. |
| 13 J | 13 | b 1 955 .. | ..... | b 4 555 06 | ..... | ..... |
| 14 S | 14 | 200 .. | ..... | ? 2 000 .. | ..... | ..... |
| Tot..... | | \$162 465 57 | ..... | \$25 014 69 | \$20 822 81 | \$24 792 75 |
| Av..... | | \$12 497 35 | ..... | \$2 501 47 | \$4 164 56 | \$4 132 13 |
| EDU | | | | | | |
| 1 T | 1 | \$108 994 14 | ..... | \$15 296 85 | \$4 150 .. | ..... |
| 2 N | 2 | 11 764 69 | ..... | ..... | ..... | ..... |
| 3 N | 3 | 27 300 .. | ..... | 1 600 .. | ..... | ..... |
| Tot..... | | \$148 058 83 | ..... | \$16 896 85 | \$4 150 .. | ..... |
| Av..... | | \$49 352 94 | ..... | \$8 448 43 | \$4 150 .. | ..... |
| M | | | | | | |
| 1 N | 1 | \$18 562 .. | ..... | \$3 678 .. | ..... | ..... |
| 2 G | 2 | c 3 132 05 | ..... | 2 615 .. | ..... | ..... |
| 3 A | 3 | ..... | ..... | ..... | ..... | ..... |
| Tot..... | | \$21 694 05 | ..... | \$6 288 .. | ..... | ..... |
| Av..... | | \$10 847 03 | ..... | \$3 144 .. | ..... | ..... |
| O | | | | | | |
| 1 R | 1 | \$24 742 .. | ..... | \$4 168 .. | \$120 .. | ..... |
| 2 C | 2 | 15 642 31 | ..... | 5 006 28 | ..... | \$32 .. |
| 3 C | 3 | 9 472 44 | ..... | e..... | ..... | ..... |
| 4 C | 4 | 593 44 | ..... | 1 756 25 | ..... | ..... |
| 5 H | 5 | 14 355 79 | ..... | 2 830 .. | 928 48 | ..... |
| 6 N | 6 | ..... | d \$422 48 | 1 804 25 | ..... | ..... |
| 7 P | 7 | 140 085 16 | ? | ? | ? | ? |
| 8 T | 8 | 9 132 20 | ..... | 10 689 59 | ..... | ..... |
| 9 R | 9 | 13 771 50 | ..... | 3 100 .. | 30 .. | ..... |
| 10 N | 10 | 6 542 99 | ..... | 163 50 | 130 .. | 255 .. |
| 11 C | 11 | ..... | ..... | ..... | ..... | ..... |
| 12 T | 12 | 9 600 .. | ..... | 1 600 .. | ..... | ..... |
| Tot..... | | \$243 947 83 | \$422 48 | \$30 617 87 | \$1 208 43 | \$287 .. |
| Av..... | | \$24 394 78 | \$422 48 | \$3 401 99 | \$302 11 | \$143 50 |
| G. T..... | | \$576 166 28 | \$422 48 | \$78 817 41 | \$26 181 24 | \$25 079 75 |

a Maintenance of professors. b No figures reported for this year; one half of the expenses for 1896-98 estimated. c Including fees to professors. d Fees to lecturers. e Given under night school.

TABLE 4—OTHER PROFESSIONAL AND TECHNICAL SCHOOLS 265

MENT, concluded

ING YEAR, concluded

| Fuel and lights | Insurance | Interest on debt | Other incidentals | All other purposes | Total | No. | |
|-----------------|------------|------------------|-------------------|--------------------|----------------|-------|----------------|
| 115 | 116 | 117 | 118 | 119 | 120 | | THEOLOGY |
| ..... | ..... | ..... | ..... | ..... | ..... | 1 | Hartwick 1 |
| \$874 84 | ..... | ..... | \$429 97 | \$551 30 | \$810 .. | 2 | Hamilton 2 |
| 1 902 38 | ..... | ..... | 1 626 24 | 600 .. | 16 126 84 | 3 | Auburn 3 |
| 4 046 66 | \$815 10 | ..... | ..... | 26 060 69 | 97 981 22 | 4 | Gen. P. E. 4 |
| 3 500 .. | 500 .. | \$2 500 .. | ..... | 7 000 .. | 90 450 .. | 5 | Union 5 |
| 198 50 | ..... | ..... | ..... | 639 87 | 1 825 28 | 6 | German 6 |
| ..... | ..... | 1 565 68 | ..... | 9 137 82 | 57 914 80 | 7 | Rochester 7 |
| 200 .. | ..... | ..... | 573 66 | ..... | 8 723 66 | 8 | Canton 8 |
| ? 50 .. | ..... | ..... | ..... | ..... | 1 710 .. | 9 | Alfred 9 |
| 195 81 | 212 .. | ..... | ..... | 1 155 51 | 5 058 48 | 10 | C. B. L. 10 |
| 1 500 .. | ..... | ..... | 250 .. | 1 200 .. | 8 500 .. | 11 | St Bonav. 11 |
| 1 000 .. | 50 .. | 10 .. | 300 .. | 4 000 .. | 10 860 .. | 12 | Niagara 12 |
| 4 273 10 | ..... | ..... | 4 207 39 | 5 3 048 92 | 26 280 68 | 13 | Jewish 13 |
| 950 .. | 175 50 | 720 26 | ..... | 10 000 .. | 14 845 76 | 14 | St John's 14 |
| \$14 681 39 | \$1 852 60 | \$4 795 94 | \$3 387 26 | \$63 894 11 | \$363 631 38 | Tot. | |
| \$1 224 28 | \$370 52 | \$1 198 99 | \$564 54 | \$5 763 10 | \$25 973 67 | Av. | |
| \$5 762 73 | ..... | ..... | \$5 824 14 | \$38 160 .. | \$187 453 57 | 1 | EDUCATION |
| 600 .. | ..... | ..... | 959 32 | ..... | 14 053 15 | 2 | Teachers 1 |
| ..... | ..... | ..... | ..... | 7 742 62 | 47 592 92 | 3 | N. Y. U. 2 |
| \$6 362 73 | ..... | ..... | \$6 783 46 | \$45 902 62 | \$249 099 64 | Tot. | |
| \$3 181 37 | ..... | ..... | \$3 391 73 | \$22 951 31 | \$83 033 21 | Av. | |
| \$199 .. | ..... | ..... | \$414 .. | \$4 203 .. | \$27 213 .. | 1 | MUSIC |
| 213 37 | \$32 17 | ..... | ..... | 3 567 62 | 9 560 21 | 2 | N. Y. mus 1 |
| ..... | ..... | ..... | ..... | 49 88 | 49 88 | 3 | G. C. mus 2 |
| \$412 37 | \$32 17 | ..... | \$414 .. | \$7 820 50 | \$36 823 09 | Tot. | |
| \$206 19 | \$32 17 | ..... | \$414 .. | \$2 606 83 | \$12 274 36 | Av. | |
| \$897 80 | \$37 50 | \$240 75 | \$1 607 80 | \$162 .. | \$33 080 90 | 1 | OTHER |
| 8 165 37 | ..... | ..... | ..... | 2 978 30 | 50 664 32 | 2 | Rensselaer 1 |
| ..... | ..... | ..... | ..... | ..... | 9 472 44 | 3 | Cooper N. 2 |
| 427 83 | ..... | ..... | ..... | 11 853 27 | 14 899 92 | 4 | Cooper W. 3 |
| 1 613 08 | 170 88 | 1 500 .. | 5 398 56 | 23 514 81 | 51 155 69 | 5 | Conrad 4 |
| ..... | ..... | ..... | ..... | 46 96 | 2 273 69 | 6 | Hebrew 5 |
| ? .. | ? .. | ? .. | ? .. | 62 365 37 | 202 460 53 | 7 | N. Y. S. L. 6 |
| 1 608 80 | 427 19 | ..... | ..... | 5 876 02 | 40 230 67 | 8 | Pratt 7 |
| 1 068 11 | ..... | 480 .. | 5 168 25 | 12 888 87 | 39 154 60 | 9 | Trade sch 8 |
| ..... | ..... | ..... | 28 45 | 4 497 20 | 13 179 55 | 10 | Roch. Ath 9 |
| ? .. | ? .. | ? .. | ? .. | 28 147 35 | 28 147 35 | 11 | N. Y. S. D. 10 |
| 28 50 | 720 .. | ..... | ..... | 3 567 50 | 21 816 .. | 12 | Catholic 11 |
| \$13 804 29 | \$1 355 57 | \$2 220 75 | \$12 143 06 | \$155 397 65 | \$505 535 56 | Tot. | |
| \$1 972 04 | \$338 89 | \$740 25 | \$3 085 77 | \$14 127 06 | \$42 127 96 | Av. | |
| \$35 270 78 | \$3 240 34 | \$7 016 69 | \$22 727 78 | \$272 514 88 | \$1 155 089 67 | G. T. | |

TABLE 5

LOCATION OF COLLEGES, PROFESSIONAL AND TECHNICAL SCHOOLS IN THE UNIVERSITY

Colleges are in black-faced type

Albany

| | |
|--------------|-------------------------------|
| Albany | Albany college of pharmacy |
| " | Albany law school |
| " | Albany medical college |
| " | Dudley observatory |
| " | New York state library school |
| " | New York state normal college |

Allegany

| | |
|--------------|---|
| Alfred | Alfred university |
| " | Alfred university, theological department |

Cattaraugus

| | |
|----------------|--|
| Allegany | St Bonaventure's college |
| " | St Bonaventure's college, theological department |

Cayuga

| | |
|--------------|-----------------------------|
| Auburn | Auburn theological seminary |
| Aurora | Wells college |

Chautauqua

| | |
|------------------|----------------------------|
| Chautauqua | a Chautauqua summer school |
|------------------|----------------------------|

Chemung

| | |
|--------------|----------------|
| Elmira | Elmira college |
|--------------|----------------|

Clinton

| | |
|------------------|-----------------------------------|
| Plattsburg | Catholic summer school of America |
|------------------|-----------------------------------|

a Business offices of Chautauqua university are located at Cleveland, Ohio.

TABLE 5—LOCATION OF COLLEGES, PROFESSIONAL SCHOOLS, ETC. 267

Dutchess

| | |
|---------------------|------------------------------|
| Annandale | St Stephen's college |
| Poughkeepsie | Vassar college |
| Stanfordville | Christian biblical institute |

Erie

| | |
|---------------|---|
| Buffalo | Canisius college |
| " | Holy Angels college |
| " | Buffalo law school |
| " | German Martin Luther seminary |
| " | University of Buffalo, college of dentistry |
| " | University of Buffalo, college of pharmacy |
| " | University of Buffalo, medical department |

Kings

| | |
|----------------|---|
| Brooklyn | Adelphi college |
| " | Polytechnic institute of Brooklyn |
| " | St Francis college |
| " | St John's college |
| " | Brooklyn college of pharmacy |
| " | Long Island college hospital |
| " | Pratt institute |
| " | St John's college, theological department |

Madison

| | |
|----------------|-------------------------------|
| Hamilton | Colgate university |
| " | Hamilton theological seminary |

Monroe

| | |
|-----------------|--|
| Rochester | University of Rochester |
| " | Rochester Atheneum and mechanics institute |
| " | Rochester theological seminary |

New York

| | |
|---------------------|--|
| Fordham | St John's college |
| New York city | Barnard college |
| " | College of the city of New York |
| " | College of St Francis Xavier |
| " | Columbia college |
| " | Manhattan college |
| " | New York university college |
| " | Normal college of the city of New York |
| " | American college of musicians |
| " | American veterinary college |

| | |
|--------------------|---|
| New York city..... | Artist-artisan institute |
| " | College of pharmacy of the city of New York |
| " | Columbia university, college of physicians and surgeons |
| " | Columbia university, faculty of applied science |
| " | Columbia university, faculty of law |
| " | Columbia university, faculty of philosophy |
| " | Columbia university, faculty of political science |
| " | Columbia university, faculty of pure science |
| " | Cooper union, night school |
| " | Cooper union, woman's art school |
| " | Eclectic medical college |
| " | General theological seminary of the P. E. church |
| " | Grand conservatory of music |
| " | Hebrew technical institute |
| " | Jewish theological seminary of America |
| " | Metropolitan college of music |
| " | New York branch of catholic summer school of America |
| " | New York college of dentistry |
| " | New York college of music |
| " | New York college of veterinary surgeons |
| " | New York dental school |
| " | New York homeopathic medical college and hospital |
| " | New York law school |
| " | New York medical college and hospital for women |
| " | New York ophthalmic hospital |
| " | New York polyclinic medical school and hospital |
| " | New York post graduate medical school and hospital |
| " | New York school of applied design for women |
| " | New York trade school |
| " | New York university, graduate school |
| " | New York university law school |
| " | New York university, school of engineering |
| " | New York university, school of pedagogy |
| " | Teachers college, Columbia university |
| " | The university and Bellevue hospital medical college |
| " | Union theological seminary |
| " | a Woman's medical college of the New York infirmary |

Niagara

| | |
|---------------------|---|
| Niagara University. | Niagara university, collegiate department |
| " | Seminary of Our Lady of Angels |

Oneida

| | |
|---------------|------------------|
| Clinton | Hamilton college |
|---------------|------------------|

a Closed this year.

TABLE 5—LOCATION OF COLLEGES, PROFESSIONAL SCHOOLS, ETC. 269

Onondaga

| | |
|----------------|--|
| Syracuse | Syracuse university, college of liberal arts |
| " | Syracuse university, college of fine arts |
| " | Syracuse university, college of medicine |
| " | Syracuse university, school of law |

Ontario

| | |
|-------------|----------------|
| Geneva..... | Hobart college |
|-------------|----------------|

Otsego

| | |
|--------------------|---|
| Hartwick Seminary. | Hartwick seminary, theological department |
|--------------------|---|

Queens

| | |
|--------------------|--------------------------------|
| College Point..... | Conrad Poppenhusen association |
|--------------------|--------------------------------|

Rensselaer

| | |
|------------|----------------------------------|
| Troy | Rensselaer polytechnic institute |
|------------|----------------------------------|

St Lawrence

| | |
|----------------|--|
| Canton..... | St Lawrence university, college of letters and science |
| " | Canton theological school |
| Potsdam | Thomas S. Clarkson memorial school of technology |

Schenectady

| | |
|------------------|---------------|
| Schenectady..... | Union college |
|------------------|---------------|

Tompkins

| | |
|--------------|--|
| Ithaca | Cornell university, academic department |
| " | Cornell university, college of agriculture |
| " | Cornell university, college of architecture |
| " | Cornell university, college of civil engineering |
| " | Cornell university, college of law |
| " | Cornell university, graduate department |
| " | Cornell university, medical college |
| " | Cornell university, Sibley college of mechanical engineering and mechanic arts |
| " | New York state college of forestry |
| " | New York state veterinary college |

Yates

| | |
|--------------------|---------------|
| Kenka College..... | Kenka college |
|--------------------|---------------|

Brazil

| | |
|----------------|-------------------|
| Sao Paulo..... | Mackenzie college |
|----------------|-------------------|

China

Canton..... Christian college in China

Syria

Beirut Syrian protestant college

" Syrian protestant college, department of pharmacy

" Syrian protestant college, medical department

Turkey

Constantinople..... Robert college of Constantinople

GENERAL INDEX

r prefixed to the page numbers refers to the Director's report; other page numbers refer to the appendixes. The superior figures tell the exact place on the page in ninths; e. g. 91³ means page 91 beginning in the third ninth of the page, i. e. about one third of the way down.

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***b*Albany college of pharmacy, statistics, 228³-47³; summary of statistics, 192⁴-97⁴.**

***b*Albany law school, statistics, 228³-47³; summary of statistics, 192⁴-97⁴.**

***b*Albany medical college, statistics, 228³-47³; summary of statistics, 192⁴-97⁴.**

***a*Alfred university, statistics: 204⁷-25⁷; *b*theological department, 250³-65³.**

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B. S. degree conferred, r91³.

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***b*Brooklyn college of pharmacy, statistics, 228³-47³.**

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a For specific subjects *see also* Colleges, statistics.

b " Professional schools, statistics.

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- Calendar of examinations**, r18-19; business, r87^a; dental, r67^a; medical, r48^a-49^a; public accountant, r78^a; veterinary, r74^a.
- ^aCanisius college, statistics, 204^a-25^a.
- ^bCanton theological school, statistics, 250^a-65^a.
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- Charters granted, r4^a-5^a.
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- ^aColgate university, statistics, 204^a-25^a.
- College department, r4.
- ^bCollege of pharmacy of the city of New York, statistics, 228^a-47^a.
- ^bCollege of physicians and surgeons, statistics, 228^a-47^a; summary of statistics, 192^a-97^a.
- ^aCollege of St Francis Xavier, statistics, 204^a-25^a.
- College of the City of New York, degrees, r5^a-6^a; statistics, 204^a-25^a.
- Colleges, regents action on, r4^a-6^a; of New York compared with those of the United States, r9^a-13^a; in University of the State of New York, r10^a; location, 266-70; statistics: r7, 203-25; commencement, 206; days in session, 206; dean of faculty, 205; degrees in course, 212; degrees on examination, r7, r8^a-9^a, 218; degrees without examination, 214; degrees, honorary, 214-15; denomination, 205; employees, 207; faculty, r7, r8^a, r14, 206-7; financial statement, 220-25; incorporation, 204; library, 216; location, 204; president, 205; property, total value, r7-9, r12-13, r15, 206; property, summary, 216-20; students, classification and number, 208-11; students holding degrees, 211; students, total number, r7-8, r14, 206.
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- Columbia university, general statement, 198^a-201^a; statistics: 201^a; law school, 228^a-47^a; summary, 192^a-97^a. *See also* Barnard college; College of physicians and surgeons; Columbia college; Teachers college.
- Commercial education, *see* Business education.
- ^aConrad Poppenhusen association, statistics, 250^a-65^a.
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^b " " Professional schools, statistics.

^c " " Technical schools, statistics.

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